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('P' before a page number indicates "Patent")

Note.—In the transliteration of names originally written in Russian the system followed so far as possible is that of *Nature* 61, 376-7 (1930), in which *g* is used instead of the *w* or *f* of other spellings, *sh* instead of *sch*, *skh* instead of *schk*, etc. Thus Paelov not Penlow, Chugraev not Tschugraeff. To make quite sure, users of the index should in such a case look under both spellings.

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II. SUBJECT INDEX

KEY

In using this index the following should be borne in mind

- 1 Subjects, not words, have been indexed
- 2 Abstracts, not merely their titles, have been considered in indexing
- 3 The small superior numeral which accompanies each page number designates the fraction of the page in ninths in which the subject being indexed is first considered. The printed matter only, exclusive of page headings, has been thus subdivided

- 4 "P" before a page number indicates that the abstract is of a patent.

- 5 The alphabetizing of index headings has been done on the basis first of that part which comes before the comma in such headings as *Copper, metallurgy of* and *Phenol, p nitro*. E.g., these headings come before the headings *Copper compounds* and *Phenol condensation products*, respectively

- 6 Organic compounds are indexed on the basis of "parent compounds," or more accurately, "index compounds" (see Introduction), the names of substituent radicals following in alphabetical order. The system of naming organic compounds which has been used is outlined in the Introduction below. Esters and salts of organic acids are, in general, indexed under the names of the acids. Notes in the index under the appropriate headings explain the few exceptions.

- 7 An asterisk (*) following the name of an organic compound entered in the index signifies that the name, or numbering, or both are the author's own and may not conform to the system of nomenclature used in this index. This sign is used where it has seemed inadvisable, owing to incomplete information, to attempt to make the name conform to the system, or where the author's name, differing widely from the one given to the compound by the indexer, is given as an extra entry.

- 8 A dagger (†), which follows the names of a few compounds, signifies that the entry is an extra one, the name being only slightly less favored than the one chosen for the other entry. The preferred name can be determined by reference to the Formula Index.

The desirability of making the index readily usable without the need of reference to an elaborate introduction has been held constantly in mind. Although an introduction seems desirable and should be helpful nevertheless the index is dependent neither on the key nor on the Introduction. Numerous cross references are given throughout the index and notes appear in connection with certain headings. An examination of the Introduction which follows, should be especially helpful to those interested in looking up organic compounds.

INTRODUCTION

General policy. The indexing of subjects, as opposed to word indexing, has been emphasized. This avoids omissions, scattering and unnecessary entries, with the abundant cross references used it means that one should be able to find all of the references on any subject with certainty and with a minimum of effort. The words used as subject headings or in modifying phrases are not necessarily to be found in the abstracts but an expression of the idea suggested will be found within or beginning in the ninth of the page designated by the small superior numeral following the page number. Chemical compounds have been named and entered systematically, the system used is outlined below. All new compounds and all elements, compounds and other substances for which new data are given have been indexed, with the single exception of new compounds for which no names or structures have been given. Such compounds are entered only in the Formula Index. The Subject Index is in no other respect altered because of the Formula Index.

Modifying phrases. In writing such phrases for the entries under any heading the words have been arranged so that the idea considered to be the most important is expressed at the beginning whenever feasible and this procedure, as well as the selection of the words for this purpose, has been governed by numerous formulated general principles and specific rules. E.g., "detection of" has been used consistently whenever correct at the beginning of the modifications in indexing subjects treated from a qualitative analytical point of view, instead of permitting a scattering under such additional phrases as "test for," "reaction for," etc., regardless of what words may have been used in the text. In the case of appropriate headings the selection of first words for modifications has been made on the basis of a definite system of classification. Under a few large headings two or more entries have been made on indexing a subject in a single abstract in case two or more ideas could be used equally well to start the modifying phrase. In alphabetizing modifying phrases prepositions at the beginning have been ignored.

References to fractions of the page. One can readily estimate ninths of a page with considerable accuracy by placing the fore or middle finger one-third of the distance from the top of the printed matter on the page and the thumb one-third of the distance from the bottom—a procedure very easily carried out.

Inorganic compounds. Simple inorganic compounds are entered under the usual names. In indexing compounds of iron, gold, copper and tin such headings as *Iron sulfates*, under which the "ous" and "ic" salts are entered, have been used rather than headings beginning with "ferric(ous)," "auric(ous)," "cupric(ous)" or "stannic(ous)." Acid salts, such as NaH_2PO_4 , are entered under such headings as *Sodium phosphates*. With the exception of a few common compounds such as carbon dioxide and carbon monoxide, compounds of a given element with another or with a definite radical, which differ only in valence relations, are grouped. E.g. the various oxides of nitrogen are grouped under the heading *Nitrogen oxides* and classified there. Complex inorganic compounds which cannot be given definite names satisfactory for indexing are usually indexed under the heading which represents the class of compounds concerned and under a heading beginning with the name of the significant element. E.g., dichlorotetraamminecobaltic chloride would be indexed under *Ammino compounds* and under *Cobalt compounds*. The Formula Index, which follows the Subject Index, should be particularly helpful in locating complex compounds.

Organic compounds. The system used for naming and indexing organic compounds is the same as that in use starting with the 1916 volume. An explanation of it by Austin M. Patterson and Carleton B. Curran, who are its originators, has appeared in another

journal of the Society.¹ The system is based on existing usage and follows this as far as is practicable, so that a great many familiar names are unaffected. Only the general principles will be given here, but in the index itself will be found abundant cross references and also notes under *Alcohols*, *Ketones*, etc., indicating how compounds of these classes are named.²

1 The 'chief function' of a compound is expressed in the main part of the name wherever possible and not as a substituent thus Pyrrolecarboxylic acid not carboxy pyrrole, ethyl alcohol or ethanol, not hydroxyethane pentanone not ketopentane

2 In compounds of mixed function the chief function is determined from the following order of precedence³ 'onium' compounds, acid (carboxylic first) acid halide, amide imide aldehyde, nitrile ketone, alcohol phenol mercaptan amine imine ether sulfide (and sulfoxide and sulfone) Thus hydroxybenzonitrile not cyanophenol aminophenol, not hydroxyaniline

3 A multiple chief function is expressed where feasible as diol dicarboxylic acid etc. rather than as hydroxy—ol, carboxy—acid etc. But amino and imino groups attached to cyclic bases are treated as substituents as aminopyridine

4 The index compound should be as large and the substituents as small as is practicable in conformity with the above rules as ethylbenzene not phenylethane. But such names as diphenylethane and triphenylcarbinol are exceptions. When the chief function is in a side chain attached to a complex nucleus, 'additive' names are preferred in order to harmonize 1 and 4, thus, naphthaleneacetic acid, not naphthyl acetic acid (with the result that the compound is indexed with other naphthalene derivatives instead of under acetic acid, see 5)

5 The main part of the name with its functional ending if any, is placed first in the index, the names of substituents following thus chloroacetic acid would appear in the index as *Acetic acid*, *chloro-* and dihydroxyanthraquinone as *Anthraquinone dihydroxy-*. The part thus placed first is called the 'index compound,' it may or may not be the "parent compound" (in the second example the parent compound is anthracene)

6. Names in which two functions are expressed in the index compound, as propanolone, cyclopentanonecarboxylic acid, are avoided, except that a few very common ones, such as phenolsulfonic acid are used (indicated by cross references)

7 The names of the substituent radicals in the name of a compound are arranged in alphabetical order, as, benzylethylmethylphenylammonium chloride. The number of radicals of each kind does not affect the order (e. g., *benzyl* precedes *ethyl* no matter how many of each are present), but the compound name of a substituted radical is treated as a unit with its own alphabetic position, thus *dimethylamino*, Me₂N, follows *benzyl* but precedes *ethyl*. When the complete name has been formed it is alphabetized as any other word

8 Parentheses, brackets and even braces are used where necessary to mark off complex radical names

9 Familiar methods of numbering are employed (Greek letters for acids, alcohols etc., and for side chains, arabic numerals for Geneva names and rings). The numbering of complex nuclei is shown in the index under the parent compounds, it is practically identical with that of Richter's 'Lexikon' so far as that work goes. For the more

¹ Patterson and Curran *J. Am. Chem. Soc.* **39** 1623-34 (1917)

² For the principles used in naming certain parent ring systems and especially in distinguishing isomeric forms by the use of bracketed numbers and letters in the middle of the name see Patterson *J. Am. Chem. Soc.* **40**, 3074-87 (1918)

³ This order is an attempt to express not the relative chemical importance of functions but general usage in selecting one of them for the ending of the name. For a recent study of the literature on this question see Patterson *Rec. trav. chim.*, **48**, 1012-17 (1929)

recently discovered forms the 'Proposed International Rules for Numbering Organic Ring Systems' ¹ have been adopted as a standard

10 When two or more numberings are equally indicated that one is chosen which gives the smallest number or numbers for the *chief function*, then for double bonds if these must be regarded, then for triple bonds, then for points of attachment (doubled molecules), then for substituents

11 Unnecessary numbers are avoided thus, in Δ^1 -1-cyclohexanol the 1 is not needed because by the rules in paragraph 10 the OH group is assumed to be in position 1

12 Numbers in parentheses are used to indicate the position of entering hydrogen necessary to the existence of the compound, thus, 4(3)-quinolone is equivalent to 3,4-dihydro-4-oxoquinoline

13 Doubled molecules or radicals are indicated by names commencing with *bi* (as *o,o* biphenol, biphenyl, Δ^1 bipiperidine) *Bis* is used for like molecules united by a bivalent radical and for double complex expressions, as, methylenebisphenol bis(dimethylamino)-

In using the *cross references*, the general nature of many of them should be kept in mind thus, the reference "Benzene, ethoxy See Phenetole" is applicable not only to this compound itself but to derivatives, which are indexed under it rather than under *Benzene*

ORGANIC RADICALS

An extensive list of preferred names for organic radicals was given in the 1927 Index in a place corresponding to this and also in the introduction of the Second Decennial Subject Index With few exceptions they are the ones in common use Attention is here called merely to the preferred names for some radicals having more than one name in the literature and to some radical names recently adopted

BY NAMES

acrenaphtheryl $C_{16}H_9$ —
acetyl CH_3CO —
acridyl $C_{13}H_9N$ —
acrylyl CH_2CHCO —
amyl C_5H_{11} —
anisal $p-MeOC_6H_4CH_2$ —
arsono $(HO)_2OAs$ —
aryl R_A —
arylene HAs —
azaryl 2,4,5- $(CH_3O)_3C_6H_2$ —
benzal C_6H_5CH —
benzoyl C_6H_5C —
benzoyl $PhC(OH)CO$ —
benzofuryl C_8H_5O —
benzohydryl $PhCH_2$ —
boryl $O-B$ —
butylene $-(CH_2)_4-$ (1,4 form shown)
camphanyl (from camphene) $C_{10}H_{17}$ —
camphoroyl (from camphoric acid) $C_{10}H_7(CO)_2$ —
camphoroyl (from camphor) $C_{10}H_{15}O$ —
camphorylidene (from camphor) $C_{10}H_{15}O$ —
caproyl $CH_3(CH_2)_4CO$ —
capryl $CH_3(CH_2)_6CO$ —
caprylyl $CH_3(CH_2)_6CO$ —
carbamido H_2NCONH —
carbamyl H_2NCO —
carbethoxy $EtOOC$ —
carbomethoxy $MeOOC$ —
carbonyl $OC=$ —
carbyl $-C-$ —
cetyl $Me(CH_2)_{14}$ —

cinnamat $PhCHCHCH$ —
cistral (from cistraldehyde) $C_8H_{11}CH_2$ —
cresoyl (from cresotic acid) 2,3- $(HO)(CH_3)C_6H_3CO$ —
cresyl $(HO)_2C_6H_3CH_2$ —
cumyl $p-MeC_6H_4CH_2CH$ —

cyclohexadecyl $CH_2CHCHCHCHCHCHCHCHCHCHCHCHCHCHCH_2$ —
cyclohexadecylidene ($\Delta^1, 6$ or $\Delta^1, 11$ shown)

$CHCHCHCHCHCHCHCHCHCHCHCHCHCHCHCH_2$

epoxy $-O-$ —
ethynyl $HC \equiv C-$ —
ethynylene $-C \equiv C-$ —
ethylene $-CH_2CH_2-$ —
fenchyl (from fenchyl alcohol) $C_{10}H_{17}$ —
fluorylidene (from fluorene) $C_{10}H_7$ —
formyl $OHC-$ —
fural C_4H_3OCH —
furyl C_4H_3O —

furylidene (2 isomer) $CHCH_2OCH_2CH_2C$
4 5 1 2 3

guanido $HN(C(NH_2)NH_2)-$ —
guanyl $HN(C(NH_2)NH_2)-$ —
happeryl $PhCONHCH_2CO$ —
indylidene (from indole) C_8H_7N —
isomitic $HOON$ —
isostroon HOV —
isopropenyl $MeC(CH_3)=$ —

¹ Patterson *J Am Chem Soc* 47, 543-61 (1925)

keto O
 mercapto HS—
 mesityl (from *mesitylene*) C_6H_3 —
 methoxyl $—SO_2CH_3SO_2$ —
 naphthal $C_{10}H_8CH$
 naphthylidene $C_{10}H_7$
 oxy $—O—$
 perthio (replacing O only) S S
 phenacyl $PhCOCH_2$ —
 phenacylidene $PhCOCH$
 phenanthrylene (from *phenanthrene*) $C_{14}H_9$
 phenylenedisazo $—N NC_6H_4N N—$
 phenylidene = cyclohexadienylidene

phthalidene (from *phthalide*) $\begin{matrix} \text{C}_6\text{H}_4\text{CO} \\ \text{O} \end{matrix}$
 phthalidyl (from *phthalide*) $\begin{matrix} \text{C}_6\text{H}_4\text{CO} \\ \text{O} \end{matrix} \text{CH—}$
 piperonyl 3,4 $(CH_2)_4C_6H_3CH_2$ —
 divsilyl (from *pyruvic acid*) $(CH_3)_2CCO—$
 propenyl $MeCHCH_2$ —
 propenylidene CH_2CHC
 pseudocumyl $(CH_3)_2CCH_2$ —
 pyrenyl $C_{14}H_9$ —
 pyridylidene C_5H_4N
 quinoxyl $(O)_2C_6H_3$ —

quinoxalyl (from *quinoxaline*) $C_8H_5N_2$ —
 salicyl αHOC_6H_4 —
 salicylal αHOC_6H_4CH
 salicylyl $\alpha HOC_6H_4CO—$
 selenyl $HSe—$
 semicarbazido $H_2NCONHNH—$
 stannyl $HSn—$
 stibonyl $(HO)_2OSb—$
 stibyl $H_2Sb—$
 stibylene HSb
 tyryl $PhCHCH_2$ —
 vanlyl OS
 vanlyl OS
 terephthalal (from *terephthalaldehyde*) HC_6H_4CHO
 thenoyl (from *thiophenecarboxylic acid 2 isomers*) $C_4H_3SCO—$
 thenyl (from *thiophene*) $C_4H_3S—$
 tolosyl $MeC_6H_4O—$
 toluene $MeC_6H_4NH—$
 a tolyl $PhCH_2CO—$
 tolyl $MeC_6H_4—$
 transyl (from *transine*) $C_{14}H_9$ —
 trazo N_2
 versaryl 3,4 $-(CH_2O)_2C_6H_3CH_2—$

RING INDEX

The following index of ring complexes is arranged as shown by the bold face figures 1 Ring Systems, with single figures indicating simple rings of 3 5 etc. members 2-Ring Systems two figures denoting double rings of 3 and 4 3 and 5 etc. members, then the triple and still more complex forms Under each combination of figures the kind and number of atoms in the ring or rings are expressed in formulas These formulas are arranged so that their initial rings are in the same order as in the Formula Index (see Key at the beginning of it) If the initial rings are alike the second rings of the formula are considered and so on. By this means the reader will be able to learn the name used in the index for the simplest parent compound containing any particular ring or combination of rings and by turning to this name in the index he will find the compound listed and perhaps cross references to names of derivatives Rings which are united but which have no atoms in common (e g biphenyl) and 'spiro compounds' which are characterized by two rings having but one atom in common are not regarded as ring complexes nor included in this index

To illustrate 6,6,6 $C_4N_7C_4C_4$ Benzocinnoline

Perimidine

Phenazine

(1) This designates a complex ring of three components each of six members, (2) the first is heterocyclic, containing four carbon atoms and two nitrogen atoms and the other two are carbocyclic rings of six atoms each, (3) parent compounds of this configuration will be found in the index under the three names given If derivatives are indexed a structural formula will be found with the proper numbering and also appropriate cross references to derivatives having other common names if any such are in the index

It should be noted that the classification is made with reference to the smallest rings which, placed together, will constitute the plane formula Thus hexamethylene-tetramine is treated as a 6 6 6 complex although a fourth six membered ring (composed of atoms from the three six membered rings) is also present

1-RING SYSTEMS

8 CFS Thiophosphorane
 C₄N Ethylenimine

C₂O Ethylene oxide
 C₂S Ethylene sulfide
 C₃ Cyclopropane

* All members of this class will be found together under Spiro in the Subject Index.

- Cyclopropene
 4 C₂N₂ Dyanetine,
 C₂N Azete
 C₂ Cyclobutane
 11 C₂H₂ Tetrazole
 C₂N₂O Fuzasam
 Oxiazole
 C₂N₂S Thiodiazole
 C₂N₂ Triazole
 C₂OPS Liquid b.p. 93° from HSCH₂CO₂H and
 PCl₅, 916³
 C₂N₂O Isoxazole
 Oxazole
 C₂N₂S Thiazole
 C₂N₂ Imidazole
 Pyrazole
 C₂O₂ Dioxolane
 Dioxole
 C₂S₂ Dithiole
 C₂N Isopyrrole
 Pyrrole
 Pyrrolemine
 Pyrroldine
 Pyrroline
 C₂O Furan
 C₂S Butadiene 2,3 - sulfone <1,4> 2 -
 methyl-, polymer
 Thiophene
 C₂Se Selenophene
 C₂Te Tellurophene
 C₂ Cyclopentadiene
 Cyclopentane
 Cyclopentene
 6 C₂N₂O₂ Dioxidiazane
 C₂N₂ Tetrazine
 C₂O₂ Levulinic acid, peroxide³
 C₂N₂S Isothiodiazane
 Thiodiazane
 C₂N₂ Thiane
 C₂O₂ 1,2,3-Oxadithiane³
 C₂S₂ Trithiane
 C₂N₂O Oxazirine
 C₂N₂S Thiazine
 C₂N₂ Pyrazine
 Pyridazine
 Pyrimidine
 C₂OSe Selenoxazane
 C₂O₂ Dioxane
 Dioxane
 C₂S₂ Dithiane
 C₂A₂ Arsenidine
 C₂N₂ Piperidine
 Pyridine
 C₂O Pyran
 C₂S Thiopyran
 C₂Se Cyclohexenopentane³
 C₂ Benzene
 Cyclohexadiene
 Cyclohexane
 Cyclohexene
 N₂N₂ Tetrathiadiazine
 7 C₂N₂ Hexamethylenimine
 C₂O Hexamethylene oxide
 C₂Se Selenapane
 C₂ Cycloheptane
 8 C₂Se₂ Diselenocane
 C₂N₂ Heptamethylenimine
 C₂ Cyclooctane
 9 C₂N₂ Compd. (7), 5428³
 10 C₂ Cyclopentadecane
 11 C₂ Cyclotetradecane
 12 C₂ Cyclohexacosane
- 13 C₂ Cyclooctacosane
 14 C₂ Cyclodotriacontane
- 2-RING SYSTEMS
 3,4 C₂C₂O Cyclopropanecarboxylic acid, 2-hy-
 droxy 2,3-diphenyl 3 lactone
 C₂C₂ Bicyclo[2.1.0]pentene
 3,4 C₂O-C₂N₂ Δ-Oxazoline, 4,5-epoxy-
 C₂C₂N₂ 1,2 Cyclopropanedicarbonyl
 C₂C₂O 1,2 Cyclopropanedicarboxylic as-
 hydride
 C₂C₂ Bicyclo[3.1.0]hexane
 3,4 C₂O-C₂ Δ-Oxabicyclo[6.1.0]nonane
 4,5 C₂N₂O-C₂N₂O 2,5-Endoxy 1,3,4 triazole³
 C₂N₂-C₂N₂ Endosumothiothiodiazole³
 4,5 C₂A₂V-C₂ Benzarsazete
 C₂HgO-C₂ Δ - Resorcylic acid 5 - (hydroxy
 mercuri)-, anhydride
 C₂ C₂ Δ-Bicyclo[3.1.1]heptene
 Norbornane
 3,4 C₂N₂-C₂N₂ Glycolal
 C₂N₂ C₂V Pyrrolopyrrole
 C₂O-C₂O 1,2,3 - Butanetricarboxylic acid, 1
 hydroxy 1,2-anhydride, γ-lac-
 tone, 1833¹
 Furuluran
 C₂C₂ Δ-Bicyclo[3.2.1]heptene
 Bicyclo[3.3.0]octane
 Norcamphane
 5,6 C₂N₂-C₂-C₂ Isobenzodithiazole
 C₂N₂-C₂ Benzofurazane
 C₂N₂-C₂N₂ Triazoloimidazole
 C₂N₂-C₂ Benzotriazole
 C₂OP-C₂ 4,4 dimopropenestechol esters of phos-
 phorus acid
 C₂N₂O-C₂N₂ Trigonelline
 C₂N₂O-C₂ Benzoxazole
 Benzoxazole
 C₂N₂-C₂ Benzothiazole
 Benzothiazole
 C₂N₂-C₂N₂ Pyrimidazole
 C₂N₂-C₂ Benzimidazole
 Indazole
 Isoindazole
 C₂O₂-C₂ Benzisothiazole
 C₂N₂-C₂N₂O Pyrroloisazane
 C₂N₂-C₂N₂ Pyrrolopyrazine
 Pyrrolopyridazine
 C₂N₂ C₂N₂ Pyrrocoline
 C₂N₂ C₂ Indole
 Isoindole
 Pseudoindole
 C₂O-C₂N₂ Furorpyridazine
 C₂O-C₂ Benzofuran
 Isobenzofuran
 C₂S-C₂ Isothionaphthene
 Thioisaphthene
 C₂ C₂N₂ Cyclopentapyrimidine
 C₂ C₂N₂ Pyridine
 C₂ C₂ Indan
 Indene
 5,7 C₂N₂-C₂N₂ Cardiazole³
 6,6 C₂N₂-C₂N₂ Pentamethylenetetramine
 C₂HgO-C₂ 2,5 - Anhydro - 5 - hydroxy
 mercuri - 2 hydroxy 3
 methoxybenzaldehyde³
 C₂N₂-C₂ Benzoxazine
 C₂N₂-C₂ Benzothiazine
 C₂N₂-C₂N₂ Pyridazopyridazine
 C₂N₂-C₂ Pthalazine
 Quinoxaline
 Quinoxaline
 C₂O-C₂O₂ Dioxinodioxin

- C₄O₂ C₄ Ascaridole
 Benzodioxan
 C₄N C₄N Bispidine
 Pyridopyridine
 Quinolizine
 C₄N C₄ Isoquinoline
 Quinoline
 C₄O-C₄O Glutaric acid β (β β dihydroxy
 α α dimethylpropyl) β
 methyl cyclic dilactone
 2 Indanemlone acid 2 (β β
 dihydroxypropyl)benzohydro d
 lactone
 C₄O C₂ Benzopyren
 Benzopyrylium
 3 β Menthancacetic acid 4
 chloro 1 hydroxy 3 lactone
 3 Oxabicyclo[3.3.1]nonane
 C₄S-C₄ Benzothiofuran
 C₄C₄ Naphthalene
 6 7 C₄-C₄N₂S Benzothiadiazepine
 C₄-C₄N₂ Glycine N anthranoyl lactam
 Leucine N anthranoyl lactam
 C₄-C₄O Homochroman
 C₄-C₄ Benzocycloheptene
 Benzosuberone
 7 7 C₄N₂O C₄N₂O Compd m 95-7° from
 glyoxal and urea 276°
- A RING SYSTEMS**
 3 3 3 C₄-C₄-C₄ Tricyclo[2.2.1]heptane
 4 4 4 C₄-C₄-C₄ Dicyclopentadiene(?)
 4 4 4 C₄-C₄-C₄ Compd (I) 5416°
 5 5 5 C₄N₂ C₄ C₄ Addition compd 1807°
 C₄N C₄N C₄ Methanopyridine
 C₄-C₄ C₄ Methanorodene
 5 5 5 C₄N₂ C₄S C₄ Thioaphtheneothiazole
 C₄N₂ C₄N C₄ Imidazoisindole
 Pyrolobenzazulazole
 C₄N C₄N C₄N₂ Dipyrrilopyrazine
 C₄N C₄N C₄ Benzod pyrrole
 C₄N C₄ C₄ Cyclooctadole
 C₄O-C₄O C₂ Benzodifuraz
 C₄O C₄S C₂ Thionaphtheneoxaloxyc
 acid 1 1 carbonyl
 anhydride
 2 Thionaphtheneoxaloxyc
 acid 1 o carbonylbenzoyl
 anhydride
 1 2 Thionaphtheneoxaloxyc
 boxylic anhydride
 C₄O C₄-C₄O 7 Noreamphaneoxaloxyc
 acid 2 hydroxy 23.5
 trimethyl lactone
 C₄-C₄ C₄N₂ Methanoquinazoline
 6 6 6 C₄S-C₄S C₄S Indophenol
 6 6 6 C₄N₂O C₄-C₄ Naphthodiazole
 C₄N₂-C₄N₂-C₂ Triazoloquinazoline
 C₄N₂-C₄-C₄ Naphthotriazole
 C₄N₂O C₄-C₄ Naphthoxazole
 C₄N₂-C₄N C₂ Thiazoloquinoline
 C₄N₂-C₄-C₄ Naphthothiazole
 C₄N₂-C₄N₂O-C₄ Pyrazobenzodiazine
 C₄N₂ C₄N₂-C₄ Pyrazobenzothiadiazine
 C₄N₂-C₄N₂-C₄ Pyrazobenzotriazaine
 C₄N₂-C₄N C₄ Imidazoisquinoline
 Imidazoquinoline
 Pyrazoquinoline
 C₄N₂-C₄ C₄ Benzimidazole
 C₄N C₄N C₄ Benzopyrrolizine
 Benzopyrrolizine
 Pyridazole
 C₄N C₄ C₄ Carbazole
- Naphthazole
 C₄O C₄N₂-C₄ Furoquinazoline
 C₄O-C₄N C₄ Furoquinoline
 C₄O-C₄O-C₄ 3 Menthaneomalonic acid
 1 4-dihydroxy dilactone
 C₄O C₄ C₄ Dibenzofuran
 Isomorphofuran
 Naphthofuran
 C₄S C₄N₂-C₄ Thionaphtheneothiazine
 C₄S C₄ C₄ Dibenzothiofuran
 Naphthothiofuran
 Thiophanthrene
 C₄ C₄N C₄ Cyclopentazinoline
 C₄ C₄-C₄ Acenaphthene
 Acenaphthylene
 Fluorene
 Naphthundan
 5 5 7 C₄N C₄-C₄N Azepindole
 C₄N C₄ C₄ Cycloheptindole
 6 6 6 C₄N₂O-C₄-C₄ Naphthodioxathiazine
 C₄N₂ C₄N₂-C₄N₂ Hexamethylenejetramine
 C₄AsN C₄-C₄ Phenarsazone
 C₄AsO C₄-C₄ Phenarsazone
 C₄Hg₂ C₄-C₄ 1 2 Bismercuribiphenyl¹⁸
 C₄N₂-C₄-C₄ Isophenothiazine
 Phenothiazine
 C₄N₂-C₄N₂-C₄ Pyrazoquinazoline
 Pyridasophthalazine
 C₄N₂ C₄-C₄ Benzoxazoline
 Benzoxazoline
 Perimidine
 Phenazine
 C₄O₂-C₄-C₄ Phenothiazine
 C₄As-C₄ C₄ Acridazone
 C₄N C₄N C₄ Benzoxazoline
 Benzoxazolinium
 Pyridoquinoline
 C₄N C₄-C₄ Acridine
 Benzoxazolinone
 Benzoxazolinone
 Phenanthridine
 C₄O C₄O C₄ Benzodipyran
 C₄O C₄-C₄ Naphthopyran
 Xanthone
 C₄S-C₄S C₄ Benzodithiopyran
 C₄S-C₄-C₄ Naphthodithiopyran
 Thioxanthene
 C₄-C₄-C₄ Anthracene
 Benzoxaphthene
 pery-Naphthalene
 Phenanthrene
- 6,6 7 C₄ C₄-C₄N Diphenamide
 6 6 6 C₄ C₄-C₄As₂ Compd m 177-8° 1223°
 C₄-C₄ C₄O₂S₂m Tolueneulfonic acid 5-
 (fluorosulfonyl) 2 (and
 4) hydroxy isomol cyclic
 sulfonyl
 Xyleneulfonic acid 2 hy
 droxy isomol cyclic sul
 fonyl
 C₄-C₄ C₄N₂ o-Benzylene-1 3 1 ene midazole*
 5,5,10 C₄-C₄-C₄S₂ Diphenyl disulfide*
 6 6 11 C₄-C₄-C₄N₂ Diphenyleneurea*
- A RING SYSTEMS**
 1 1 1 1 C₄O C₄ C₄-C₄ Dicyclopentadiene * mon
 oxides
 4,6 5 5 C₄N-C₄-C₄ Compd m 180° (de
 compn) 1012°
 5 5 5 5 C₄N₂-C₄O C₄-C₄ Compd C₄H₁₁O₂N₂
 1807°
 C₄N₂-C₄-C₄-C₄ Methanindendotriazole
 5 5 5 5 C₄N₂-C₄ C₄ C₄ Compd II 1807°

- $C_6O-C_6O-C_6O-C_6$ Melitic trianhydride
5 5 5 5 $C_6AsS-C_6AsS-C_6-C_6$ Compd. m. 177-5°, 1225°
 $C_6N-C_6N-C_6N-C_6$ Benzamidasopyrimidopyrrole
 $C_6N-C_6N-C_6-C_6$ Pseudoisondolobenzimidazole
 $C_6N-C_6-C_6-C_6$ Benzocyclopentindole
 Indenoindole
 $C_6O-C_6S-C_6-C_6$ 1 β -Naphthothiophenecarboxylic acid 2 2'-carbonylbis-, anhydride
 1 β -Naphthothiophenecarboxylic acid, 2-o-carboxybenzoyl-, anhydride
 1 2 β -Naphthothiophenecarboxylic anhydride
 3 Thiophanthrenecarboxylic acid 2 2'-carbonylbis-, anhydride
 3-Thiophanthrenecarboxylic acid 2-o-carboxybenzoyl-, anhydride
 2 3-Thiophanthrenedicarboxylic anhydride
 $C_6-C_6-C_6N-C_6N$ Ethenopyrindacene
5 5 5 5 $C_6N-C_6-C_6-C_6$ Anthra(bis)azole
 Anthra(bis)thiazole
 $C_6N-C_6N-C_6-C_6$ Imidazophenazine
 $C_6N-C_6-C_6-C_6$ Anthrapyrazole
 $C_6N-C_6-C_6-C_6$ Anthrapyrole
 Benzocarbazole
 $C_6O-C_6-C_6-C_6$ 1 4-Anthracenedicarboxylic acid 9,10-dihydroxy-, mono γ -lactone
 Anthra(furan)
 1 Anthracene acid, 9 10-dihydroxy-, γ -lactone
 Phenanthro(furan)
 $C_6S-C_6-C_6-C_6$ Anthrathiofuran
 Benzothiofuranthrene
 $C_6-C_6N-C_6-C_6$ Isoquinoxaline
 $C_6-C_6N-C_6N-C_6$ Isoquinoxaline
 Isoquinoxaline
 $C_6-C_6-C_6-C_6$ Acenaphthylene
 Benzofluorene
 Chrysfluorene
 Fluoranthene
5,5,5,7 $C_6S-C_6-C_6-C_6N$ 2-Thioanthracenecarboxylic acid, 1 anthracenyl cyclic lactam
5 5,5,10 $C_6S-C_6-C_6-C_6OS$ 3-o-Naphthothiophenol, 6-(carboxymethylmercapto)-, cyclic lactone
5 5 5 5 $C_6AsN-C_6N-C_6-C_6$ Quinoxalazine
 $C_6N-S-C_6-C_6-C_6$ Anthra(bis)azole
 Anthra(bis)thiazole
 $C_6N-C_6-C_6-C_6$ Benzophenazine
 Naphthophthalazine
 Naphthoquinazoline
 $C_6OS-C_6-C_6-C_6$ Benzophenoxazine
 $C_6N-C_6O-C_6-C_6$ Xanthopyridine
 $C_6N-C_6-C_6-C_6$ Benzacridine
 Benzophenanthridine
 Dibenzosquinoxaline
 Naphthoquinoline
 $C_6O-C_6-C_6-C_6$ Benzoxanthene
 $C_6-C_6-C_6-C_6$ Benzanthrene
 Chrysene
 Ethanoanthracene
 Ethenoanthracene
 Naphthacene
 Pyrene
5 5 5 7 $C_6-C_6-C_6-C_6O$ o-Toluic acid, α -(2-hydroxy 1 naphthyl) lactone
 o-Veratric acid 6-(2-hydroxy 1 naphthylmethyl) lactone
 $C_6-C_6-C_6-C_7$ *peri* (1 5) Phthaloyl 2-naphthol
5 RING SYSTEMS
5 5 5 5 $C_6O-C_6N-C_6-C_6$ Dicyclopentadiene * oxooxide (triazole from)
5 5 5 5 $C_6-C_6-C_6-C_6$ *Tricyclopentadiene* * (?)
5 5 5 5,14 $C_6S-C_6S-C_6S-C_6S$ α Dithienyl bis(α ketodihydro-2 bromoisindolene) 14-
5,5,5,5 $C_6N-C_6N-C_6-C_6$ Isoindolophthimide
 $C_6N-C_6N-C_6N-C_6$ Dindolopyridine
 $C_6O-C_6O-C_6-C_6$ Pseudoanthrahydroquinone 1 2-dicarboxylic acid lactone*
 $C_6S-C_6S-C_6-C_6$ Benzothioisophthirene
5,5,5,5 $C_6S-C_6S-C_6-C_6O$ 2-Thioanthracenecarboxylic acid 1 1'-carbonylbis-, anhydride
5,5,5,5 $C_6N-C_6N-C_6-C_6$ Benzimidazobenzosquinoxaline
 $C_6N-C_6N-C_6-C_6$ Isoindocarboline
 $C_6O-C_6O-C_6-C_6$ Naphthofuribenzopyrrolone
 $C_6O-C_6-C_6-C_6$ Dinaphthofuran
 Furanoanthracene
 $C_6S-C_6-C_6-C_6$ Dibenzothiofuranthrene
 Dinaphthothiophene
 $C_6-C_6N-C_6-C_6$ Acenaphthoquinazoline

- $C_5-C_5-C_5-C_5$ Cyclopentao-1,2-benzanthracene*
 5,5,5,5,5 $C_5N-C_5N-C_5N-C_5-C_5$ Flourobise
 $C_5N-C_5N-C_5N-C_5-C_5$ Isoquinoline red
 $C_5N-C_5-C_5-C_5-C_5$ Dibenzophenazine
 $C_5OS-C_5-C_5-C_5-C_5$ Dibenzophenothiazine
 $C_5N-C_5N-C_5-C_5-C_5$ 1,8,9,10-Phenanthrenetetracarboximide, *N,N*-diphenyl
 $C_5N-C_5-C_5-C_5-C_5$ 1,2-Benzanthrene-4,5-dicarboximide
 4-meth-Benzanthrene-7,8-dicarboximide 4 keto
 Benzonaphthoquinoline
 Dibenzacridine
 Naphthacridine
 $C_5O-C_5O-C_5-C_5-C_5$ 1,8,9,10-Phenanthrenetetracarboxylic dianhydride
 $C_5O-C_5-C_5-C_5-C_5$ 1,2-Benzanthrene-4,5-dicarboxylic anhydride
 4-meth-Benzanthrene-7,8-dicarboxylic anhydride, 4 keto
 Dibenzoxanthene
 Dibenzoxanthylum
 $C_5-C_5-C_5-C_5-C_5$ 6-Benzene[5,10]anthracene
 Benzonaphthacene
 Dibenzanthracene
 Dibenzophenanthrene
 Pentacene
 Perylene
 Picene
 5,5,5,6,7 $C_5-C_5-C_5-C_5-C_5O_2$ Dehydro deriv from 1,1'-(*o*-chlorobenzal)bis-2-naphthol 291
 $C_5-C_5-C_5-C_5-C_5N$ Naphthomorphanthracene
 5,5,5,6,16 $C_5-C_5-C_5-C_5-C_5S_4$ Di-1,5-naphthalenedithiodisulfide*
 1,5-Naphthalenedithiodisulfonic acid 1,5-naphthalene ester*

6-RING SYSTEMS

- 5,5,5,5,6 $C_5N-C_5-C_5-C_5-C_5$ Compd. 1807*
 5,5,5,5,6 $C_5N-C_5N-C_5N-C_5-C_5$ Phenazopseudosordolololmidazole
 $C_5O-C_5O-C_5N-C_5-C_5$ Chelidone
 $C_5O-C_5O-C_5N-C_5-C_5$ Hydrazine dehydro*
 $C_5S-C_5-C_5-C_5-C_5$ 2-Thionaphthene-9-phenanthrene indigo* isomer
 5,5,5,5,6 $C_5N-C_5N-C_5O-C_5-C_5$ Benzimidazobenzosquovalone-3,4-dicarboxylic anhydride 7 keto
 $C_5N-C_5N-C_5-C_5-C_5$ Naphthosquovalone
 $C_5-C_5N-C_5-C_5-C_5$ Acenaphthobenzosquovalone
 $C_5-C_5-C_5-C_5-C_5$ Acenaphthene
 Phenanthraacenosaphthene*
 Phenanthrafluorene*
 5,5,5,5,6 $C_5O-C_5O-C_5-C_5-C_5$ 6,13-Pentacenediyl 6,13-dihydro- endocyclic perox de
 $C_5O-C_5O-C_5-C_5-C_5$ Xanthopentacene
 $C_5-C_5-C_5-C_5-C_5$ Anthraphenanthrene
 Dibenzochrysene
 Dibenzonaphthacene
 Dibenzopyrene
 Dibenzotriphenylene

7-RING SYSTEMS

- 5,5,5,5,5,5 $C_5N-C_5N-C_5-C_5-C_5-C_5$ Compd. III, 1807*
 5,5,5,5,5,5 $C_5N-C_5N-C_5N-C_5N-C_5-C_5$ Dioxadolebenzobenzimidazole
 5,5,5,5,5,5 $C_5N-C_5N-C_5-C_5-C_5-C_5$ Dipyrrolopyrene
 $C_5S-C_5S-C_5-C_5-C_5-C_5$ Benzobinaphthothiothiophene
 5,5,5,5,5,5 $C_5N-C_5-C_5-C_5-C_5-C_5$ Durephthocutazole
 $C_5O-C_5-C_5-C_5-C_5-C_5$ Dianthracene
 $C_5-C_5N-C_5N-C_5-C_5-C_5$ Acenaphthaphenazine*
 5,5,5,5,5,5 $C_5N-C_5N-C_5-C_5-C_5-C_5$ Dibenzosquovalophenazine
 $C_5N-C_5-C_5-C_5-C_5-C_5$ Anthracene
 Indanthrene
 $C_5-C_5-C_5-C_5-C_5-C_5$ 6-Benzene[6,13]pentacene
 Benzonaphthochrysene
 Dibenzopyrene
 5,5,6,6,6,6,10 $C_5-C_5-C_5-C_5-C_5-C_5O_2$ 6,13-Pentacenediyl 5,13-dihydro- hydro μ n + e the

8-RING SYSTEMS

- 5,5,5,5,5,5,5 $C_5S-C_5S-C_5-C_5-C_5-C_5-C_5$ Chrysobenzonaphthene
 5,5,5,5,5,5,6 $C_5N-C_5N-C_5-C_5-C_5-C_5-C_5$ Flavanthrene
 $C_5-C_5-C_5-C_5-C_5-C_5-C_5$ Naphthodanthracene
 Pyranthrene
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 5,5,5,5,5,5,5,5 $C_5N-C_5N-C_5N-C_5-C_5-C_5-C_5-C_5$ Dianthracene-1,2-indoxyl anhydride*
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Students of Agriculture and Home Economics 3210 *Einführung in die analytische Praxis der* 5244 *Chimica agraria*

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in Europe 1931

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Agriculture books *Microbiologie agricole*

1025 *Agenda agricole et viticole* 1931

2014

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journal and Live-Stock in India 240

Indian J. of Agr. Science 2607 J. of the Imperial Agr. Expt. Sta. Japan

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1-[9,10]



6-[1,9]

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9 Anthramine 947¹

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Anthra[1,9-b]furan (9-anthracenylidene)

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— 4 bromo \backslash carborylmethyl)

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— \backslash α bromoisopropyl 49

— 2 bromo 4 isopropyl 1 color reaction

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4244

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5492

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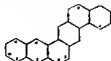
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[21 β]

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meso

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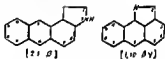
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[11 β]

[110 δ]

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Anthraquinone 2,1-thiophenethionaph theneindigo¹ 2723¹

Anthraquinone 2,1-thiophenethionaph theneindigo¹ 2723¹

Anthraquinone 2,1-thiophenethionaph theneindigo¹ 2723¹

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—, 2-(3-keto 2(3)-indylidene) 2723¹

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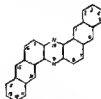
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
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$$\begin{array}{ccccccc} \text{NH} & \text{CO} & \text{NH} & \text{CO} & \text{CH}_3 & \text{CO} & \\ | & & | & & & & \\ 1 & 2 & 3 & 4 & 5 & 6 & \end{array}$$

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


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- *p,p* (4,3 dihydroxy *m* phenylene diazo)bis 927^a
- 2,4-dihydroxy 2 sulfo 92^a
- *o*-o-dithiois 1223^a
- *m* (fluorosulfonyl) 943^a
- *p* formyl P 3664^a
- 4 formyl 2 hydroxy - condensation product with 2,3-dimethyl-4-aminopyrazol-1-phenyl-4-arsonic acid P 2813^a
- 3 - formyl 4,3 - methylenedioxy - and semicarbazone, 3324^a
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- *p* - (5 hydroxy-3-methyl-1-phenyl 4 pyrazolylazo) - toxicity of, 4937^a
- *p* - (2 - hydroxy - 2 - methyl 4 quinolylazo) - toxicity of, 4937^a
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- *p* - [(6-methoxy 2-methyl 4 quinolylamino)phenyl] color reaction of, with sodium 704^a
- *o*-(and *p*)-(methylsulfonyl) 92^a 93^a
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- p,p* bis[hexafluorophosphate] 1754^a
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- o*-carboethoxy - borofluoride, 4239^a
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- chloride spectrum of 4797^a
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- o*-Benzenedicarboxylic acid See Phthalic acid
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- Benzenedisulfonamide, hydroxy See Phenoldisulfonamide
- m* Benzenedisulfonyl chloride 2,4,4-trihydroxy, P 1262^a
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- , 2 - *o* - chloroacetamido - 2 - methyl - 4550^a
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- Benzenhexamine structure of 4456^a
- Benzenes hydracarbon See Hydrocarbons

- *p* bromo ester with 4,5-dibromo-6-hydroxy *m* benzenesulfonotoluide, 540^o
- 8 bromo-6-(*m* bromophenyl) 4872^o
- *p*-(*p* bromophenoxy) salts 4818^o
- *p*-chloro ester of 5-methyl 1 phenyl-4 pyrazolol 3342^o
- chlorodihydroxy, barium salt 691^o
- 3 chloro 5 nitro- esters 540^o
- 3,4-diamino 2^o 83^o
- 3,5-dichloro and reaction with Na_2O , 4860^o
- 3,4-dichloro-, ester with 5 bromo-3,4-dichloro 6 hydroxy *m* benzene sulfonotoluide 5408^o
- reaction with NaONa , 923^o
- 3,5-(and 3,4)-dichloro-3,5- and 3,6-dihydroxy barium salts 691^o, 692^o
- *n*-(4,6-dihydro-3-keto-5-methyl 4 phenylazo-1-pyrazolyl) 502^o
- *n*-(4,6-dihydro-5-keto-3-methyl 1-pyrazolyl) 50^o
- *p*-(4-dimethylamino 1-naphthylazo) sodium salt dye 4045^o
- 5,7-dimethylamino-1-naphthylazo 5 nitro- sodium salt dye 4545^o
- 4,4-dinitro hydrazide 2^o 9^o
- 4,4-dithiolbis(1-nitro dipotassium salt, 150^o
- *p*-(ethylmercurimercapto), 18^o 1^o bacterial value of 4907^o
- *m* or *p* hydrazine ketone hydrazones of, P 4593^o
- *o*-hydrazine 80^o
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- *p*-*p*-hydroxyphenylazo) sodium salt reduction of 1,50^o
- *p*-(8-hydroxy 8-quinolylazo) compd with NaHSO_4 954^o
- *p*,*p* iminobis, salts 1503^o
- 4,4 iminobis(3-bromo benzene salt 1503^o
- 4,4 iminobis(3-nitro, disodium salt, 1503^o
- *p*-iodoso-, 923^o
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- mercapto(sulfomethylamino) S-gold and Ag derive disodium salt P 969^o
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- *o*-(*m* and *p*) nitro-, deriva, 2702^o
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- *p*-(*p* nitrophenylazo)- and salts and their use in analytical chemistry 287^o
- *p* phenoxy-, and *p* toluene salt, 4818^o
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- *p*-phenylazo- And salts and their use in analytical chemistry, 287^o
- sodium salt, as reagent in color test for imidazolemercaptans 532^o
- *p*-(phenylmercurimercapto)- bacterial value of, 4908^o
- 4,4-sulfonylbis(3-nitro-, and salts 1506^o
- 4,4 thiolbis(3-nitro-, and salts, 150^o
- *a*-(3,5,5-trihydroxy 5-xanthyl)-, γ -lactone—see *Sulfonofluorescein*
- m* Benzenesulfonotoluide, 3'-bromo-3-chloro-5-hydroxy-5-nitro-, 3-chloro-3-nitrobenzenesulfonate 5408^o
- 5-bromo-3,4-dichloro-5-hydroxy, 3,4-dichlorobenzenesulfonate 5408^o
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- *p*-(*p*-bromophenoxy)-, 1818^o
- *o*-(chlorohydraxyaryl)-(7) 93
- *m*-dichloroaryl, 2541^o
- *o*-(*m* and *p*) nitro-, sepo of 2^o 9^o
- *p*,*p* oxybis, 1318^o
- *p*-phenoxy-, 1818^o
- *o*-phenyl 4572^o
- 4,4 thiolbis(3-nitro-, 1506^o
- 3,3,4-trichloro-, P 5010^o
- Benzenesulfonyl fluoride, *m*-(chlorophenyl aryl)-, 2841^o
- *m*-dichloroaryl 2841^o
- 3-iodo-4-methoxy, 2843^o
- 1,3,4,5-Benzenetetracarboxylic acid See *Pyromellitic acid*
- 1,3,4,5-Benzenetetracarboxylic acid, 3-acetamido 5-nitro-, tetraacetate, 2129^o
- 5-amino-6-nitro, diacetyl deriv 2129^o
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- 3,5-bis(3,5-dibromo-3-methyl)-tetraacetate, 3640^o
- 3,5-diacetamido, tetraacetate, 711^o
- 3,4-diphenyl, acetate 363^o
- 1,3,4-Benzenetriamine Δ^1, Δ^1 -diacetyl, P 4356
- Δ^1 phenyl, prepn of 105^o
- Benzenetricarbonyl chloride tribenzoyl 9^o
- Benzenetricarboxylic acid, tribenzoyl, and trimethyl ester, 9^o
- 1,2,3-Benzenetricarboxylic acid See *Hemicellulic acid*
- 1,3,4-Benzenetricarboxylic acid See *Tricellulic acid*
- 1,3,5-Benzenetriol See *Pyrogallol*
- 1,3,4-Benzenetriol, picrate, 1815^o
- reaction with Na nitroprusside, 2931^o
- 3,5-dimethyl, diacetate 5413
- 1,3,5-Benzenetriol See *Phloroglucinol*
- 1,3,4-Benzenetrisulfonyl chloride 3-hydroxy 4-methyl P 1262
- n* Benzene[3,10]anthracene



O—[10]

- n* Benzene[5,10]anthracene-1,4-diol, 5,10-dihydro- and diacetate 5159^o

o - Benzeno[5 10]anthracene - 1 2 - diene,
2 - anilino 3 chloro - 2 10 - dihydro,
5160^o

— 2 2-dibromo 3 10 dihydro-, 5160^o

— 2 2 dichloro 3 10 dihydro- 5160^o

—, 5 10 dihydro, 5150^o

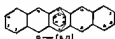
—, 4, 8, 10, 10a-tetrahydro, 5159^o

p Benzenone See A¹ Cyclohexadienone

— 4 (p hydroxyphenylimino) See Ia
diphenol

Benzenone[Indophenol] See Indophenol

o Benzeno[4 12]pentacene,



o - Benzeno[3 13]pentacene 17 20 diene

12 13 dichloro 4 13 dihydro (?)

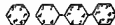
5160^o

— 12,12,13 13 tetrachloro - 4 12,12,13
tetrahydro- 5160^o

— 4,12 13 13 tetrahydro 5160^o

Benzenylamine See Benzamide

Benzerythrene (p p diphenylbiphenyl)



prepn of 4252^o

— 4, 4 - dimethoxy 3 (?) 2 (?)
dinitro 4252^o

Benzhydrol See Benzochrydrol

Benzidine (p p -benidine),



alkali metal derive of P 3434^o

color reaction of, 1501^o

comps of 54^o 63

detn isolic anisq colns 895^o

detn of and its homologs, 2040

hydrogenation of 2900^o

peroxide formation is also subject of effect
of H₂O₂ on 1330^o

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— N N bis(4 - chloro 3 - nitrophenyl
sulfonyl) oxidation of 29^o

— N N bis(2 (3 and 3) chlorovanilal)
94^o 1

— N N bis[2 (3 6 and 2 2) dichloro
vanilal] 94^o 1

— 2 2-dichloro, 4860^o

— or, or - dimethyl See Tolidant

— diphenyl indicator corrections for
5109^o

— N N diphenyl as oxidation reduc
tion indicator 48^o

Benzidine rearrangement See Rearrange
ment

Benzidine sulfone* prepn of 4254^o

Benzil (benzoyl), C₆H₅ CO CO C₆H₅,

bis(α-tolylhydrazine) 1821^o

compd with cyclohexanone 2992^o

derives and phenanthrenequinone derives
from, 1243^o

derives, reduction of by Ph₃CMgBr 4256^o

d oxime—see Glyoxime d phenyl

nitration of 4873^o

α and β-isomer, configuration of, 290

reduction of with Ph₃CMgBr 4256

thio-4 p-tolylsemicarbazone 1225^o

—, 4 - chloro - 4 - dimethylamino
4875^o

— p p dichloro reduction of, with
Ph₃CMgBr 4256^o

— dichlorodihydroxy 1244^o

—, 3 (see 2,4)-dihydroxy action of
AlCl₃ on, 3904^o

and dibenzate, 1243^o

— 2,4 dimethoxy 4876^o

— 2 4 dimethoxy, 1243^o

—, p, p' dimethyl See p-Tol

— p-dimethylamino, reduction of 100^o

— o methoxy 3337^o

— and derives 1242^o

— 4 methoxy 2 4 - methylenedioxy
4876^o

— 2 4 methylenedioxy 4876^o

— and derives, 1243^o

Benzilamide prepn of 2134

Benzilic acid (diphenylglycolic acid) condensa
tions with thiophene and with thiophene

thene, 2143^o

(thema Einwirkung von, auf Säureamide
Kondensationen von Benzil Tolu und
Aminolure mit Phenolen und aromet
ischen Ammon, 3663^o)

— 4 4-dimethoxy + condensation with
thiophene 2143^o

Benzimidazolebenzisoquinoline



Benzimidazolebenzisoquinoline - 3 4 - diar
boxylic acid 7 keto P 4412^o

Benzimidazolebenzisoquinoline - 3 4 - diar
boxylic anhydride 7 keto, P 4412^o

7 Benzimidazolebenzisoquinolinone derives
P 3013^o

Benzimidazole (1 2 benzimidazole)



derives P 3013^o

derives, methylation of, 4265^o

— 3 [α (α amineenilino)

tolyl] 702^o

— 2 amyl, 1800

— 2 2 arsenobis[2 carbamylmethyl

mercapto] 703^o

— 6 6 arsenobis[2 carbamylmethyl
mercapto] and HCl 703^o

—, benzylene See Pseudobenzol-
benzimidazole

— 6 (and 2) bromo 1 2 dimethyl
4265^o

—, 1,2 dimethyl-6 niteo-, 4265^o

— 2 2 dithiolic, and HCl, 703^o

— 2 guanido- physiol effect of 3089^o

— 2 heptyl, 1800^o

— 2 heptyl, 1800^o

— 2 (α-hydroxy o tolyl) 7, 702^o

- 1 isopropyl 1800¹
- 1 β methylbutyl, 1800¹
- 1,3-(1,6 naphthylene)- See 7
- Benzimidazolebenzisoquinoline
- nicotinoylene-² 4265²
- 1 nonyl, 1800¹
- 1 pentadecyl 1800¹
- 1 propyl, 1800¹
- 1,3-Benzimidazole *o*-benzylene², constitution of 702¹
- 1-Benzimidazolecaronic acid 1 allyl 2,3 dihydro 2 keto P 1840¹
- 1 (carboxymethylmercapto), and salts, 703¹
- 1 (carboxymethylmercapto) and salts, 703¹
- 1,2-dihydro-2-hydroxy-1,2,3-trimethyl, 4265²
- 1,2-dihydro-2-keto-2-methyl-P 714¹, P 1840¹
- 1,2-dihydro 2-keto-1 propyl-P 1840¹
- 1,2-dithiolis-HI 703¹
- 1 mercapto-thioacetamide deriv 703¹
- 1 sulfo- and barium salt, 703¹
- 6-Benzimidazolecaronic acid, 1,2 dimethyl 4265²
- 1-Benzimidazole 2 cyclohexanecarboxylic acid¹ and ethylester, 701¹
- 1-Benzimidazolepropionic acid, 701¹
- Benzimidazolestibonic acid 1,2-dihydro 2 keto and derivs P 1035¹ P 1035¹ P 1335¹
- 1-Benzimidazolestibonic acid 1,2-dihydro-2 keto-1 methyl P 425¹
- 1-Benzimidazolestibonic acid 703¹
- 1,2 arsenobis 703¹
- 1-Benzimidazole 2 amine 1,2-dihydro 1,2,3 trimethyl and hydrochlorides, 4265²
- 6-Benzimidazole 1,7-dibromo-2 methyl, 2125¹
- 2(3)-Benzimidazolone preps of, 1800¹
- 6-amino-4-chloro P 425¹
- 6-amino-1-ethyl, P 425¹
- 6-*o*-arsenobis, derivs, P 3776¹
- 2 thio, reaction with *p*-a nitrophenyl 2134¹

Benzimidazopyridolopyrrole,



- Benzimidazo[2,1-*b*]pyrido[2,3-*c*]isopyrrole-5-one, 4265²
- Benzimidic acid ethyl ester, absorption of light by, 3961¹
- β hydroxyphenyl ester, 1231¹
- *N*-(*m*-chlorophenyl), β -chlorophenyl ester, 2147¹
- *N*-(*p*-chlorophenyl), β -chlorophenyl ester 892¹
- *o*-tolyl ester, 2147¹
- *N*-*o*-tolyl, ester 2147¹
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- Benzine (See also Naphtha Petroleum &c solvent naphtha)

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- boiling point and boiling range of, data of, 586¹
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- from brown coal prep'd by high pressure hydrogenation without addn of tar 1857¹
- clarification of, P 3824¹
- data on air, 4481¹
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- formed in synthesis of petroleum by reduction of CO, 3406¹
- gelatinization of, P 710¹
- hydroaromatic constituent in asphalt, 3807¹
- from hydrogenation of residues from Borzisz crude oil, 585¹
- ignition (spontaneous) temp of, 3553¹
- liquid fuels contg, fractional distn and vapor pressure of, 3487¹
- stand of, P 1065¹, P 2351¹
- mixts with air and with H_2QH , azeotrop in, 3887¹
- motor, manifold of, 1655¹
- permeability of surfacer films contg, to air and H_2O , 508¹
- poisoning by, blood in 219¹
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- refiner, P 1056¹
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- spreading of, contact angle in, 4166¹
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- deactivation of catalyst in, 3807¹
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2,1-*peri* Benzisoquinoline (*peri*-naphthalene),

- 2,1-*peri*-Benzisoquinoline-2(3)-acetamide, 1,2-diketo-, 3325¹
- 2,1-*peri*-Benzisoquinoline-2(3)-acetic acid 1,2-diketo-, 3325¹
- 2,1-*peri*-Benzisoquinoline-2(3)-aceto nitrile, 1,2-diketo-, 3325¹
- 2,1-*peri*-Benzisoquinoline-2(3)-acetyl chloride, 1,2-diketo-, 3325¹
- 2,1-*peri*-Benzisoquinoline-1,2(3) dione See Naphthalimide
- Benzisoufionazole (Benzisothiazole 5-dioxide) 925¹
- 1 acetyl 1,2-dihydro-, 925¹
- 2-(*p*-aminophenyl)-1,2-dihydro 925¹
- 1 benzoyl 1,2-dihydro-, 925¹
- 1,2-dihydro-2 keto- See Sarcosine

- , 1,3-dihydro 1-methyl-3-(β -phenylhydrazino), 928²
 —, 1,3-dihydro 2-(β -methyl- β -phenylhydrazino), 928²
 —, 1,3-dihydro 1-(3-naphthylsulfonyl)-, 928²
 —, 1,3-dihydro 2-nitro-2-(β -phenylhydrazino)-, 928²
 —, 1,3-dihydro 1-(phenylsulfonyl)-, 928²
 —, 1,3-dihydro 2-(β - p -tolylhydrazino), 928²
 —, 3-(p -dimethylaminophenyl)-1,3-dihydro-, 928²
 5-Benzisulfonamidesulfonamide, 2,2-dihydro-2-(β -phenylhydrazino)-, 928²

2(1) Benzisulfonazoles See *Sascheria*
 Benzisothiazole



S-dioxide—see Ben isosulfonazole
 2-Benzisothiazole,



- , 3,3-bis(hydroxyphenyl)- 3-dioxo—
 see Phenolsulfonephthalene
 3-Benzisothiazole-4,5-triol 1-(amino-methyl)-, S-dioxo, and isomeric 3,6,7-triol 3973¹
 2-Benzisothiazole-3,4,5-triol 1-(amino-methyl)- 4-dioxo 3973¹
 3-Benzisothiazole 1-one 4,6,7-tetra-bromo 1-dioxo—see naphtho-
 under Benzoic acid 2,3,4,5-tetrahydro-
 6-sulfo-

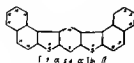
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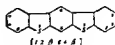
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Benzo[1,3-a:4-a']bi- β -naphtho-
 thiophene

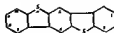


Benzo[1,3-a:4-a']bi- β -naphthothiophene 3,14-dione 5167¹

Benzobithionephthene,



[1,2 β 4,5 β]



[1,2 β 4,5 β]

Benzo[1,3-a:4-a']bi-bithionephthene
 4,11-dione 2-chloro 1-methyl, 5167¹

Benzo[1,3-a:4-a']bi-bithionephthene

3,11-dione 5167¹

—, 2-chloro-1-methyl 5167¹

—, 2-dichloro 1,11-dimethyl, 5167¹

—, 2-ethoxy, 5167¹

—, 2-hydroxy, 5167¹

Benzocaine (anesthetics ethyl p -aminobenzoate)

(For derivs see under Benzoic acid)

derivs of 1811¹

detection of 379¹

Benzocarbazole



α



γ

α -Benzocarbazole derive, P 1533

and picrate 2722¹

—, 11-acetyl 2722¹

—, 1-acetyl 1,6-dihydro- endo isomers 1523¹

—, 11-acetyl 5,6,8a,11a-tetrahydro

end, endo, 5674¹

—, 11-benzoyl-1,6,8a,11a-tetrahy-

dro, end, endo, 5675¹

—, 4,6,8a,11a-tetrahydro end, endo

and picrate 5674¹

—, 3,5,6x,11x-tetrahydro 11-nitroso,

end, endo, 5675¹

γ -Benzocarbazole, derive P 1533

—, 3,6-dihydro 2722¹

—, 2-methyl 1523¹

—, 1,2,10,11-tetrahydro-4-methyl

and picrate, 1523¹

3- α -Benzocarbazolescarboxylic acid 4-

hydroxy, P 966¹

3- γ -Benzocarbazolescarboxylic acid, 4-

hydroxy, P 966¹

2,6-Benzocinnolinic acid (5,6-benzocinnolinic 1-carboxylic acid β -naphtho-
 cinnolinic acid)

—, 2-(3-furyl)- and copper salt 955¹

—, 1-(3-furyl)-1,3,4-tetrahydro-, 955¹

2,4-Benzocinnoline (5,6-naphthocinnoline),



1,4

derive, P 1285¹

Benzocoumaran. See *Apokoumaran*

Benzocycloheptadiene

— 3,3,4,4-tetrahydro- See *Benzosuberone*Benzocycloheptatriene See *Benzosuberone*

Benzocyclopentindole



[7]—[5]



[5]—[7]

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—, 2-chloro-4-methoxy-, and oxide,
 2992⁵

—, 2-chloro-3,4-methylenedioxy
 and oxide 2992⁵

—, 3,4-dimethoxy and deriva, 4876⁵

—, 4-dimethylamino and oxide 2992⁵

—, 4-(and 4')-dimethylamino, 512⁵

—, dimethylaminomethylenedioxy 3844⁵

—, 2-methoxy 1242⁵ 3337⁵

—, 3-methoxy-, and semicarbazone 4875⁵

—, 4-methoxy-, and deriva, 4875⁵

—, and oxide 2992⁵

—, 4-methoxy-3,4-methylenedioxy
 and semicarbazone, 4876⁵

—, 3,4-methylenedioxy and deriva
 4373⁵

—, and oxide, 2992⁵

Benzoins, mixed, 2713 2992⁵ 3644⁵ 4254⁵
 5416⁵

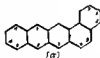
—, mixed, effect of substituents on the formation
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—, mixed formation of 4875⁵

4,3-Benzoisatin See 1,2-β-Naphthacole
 dione

5,7-Benzoisatin See 2,3-α-Naphthacole
 dione

Benzo[α]naphthene



Benzo[β]naphthene See *Pteridine*

Benzo[α]naphthene 7,14-dione, 5162⁵

—, 5,13-dihydroxy 4875⁵

—, 3(or 12)-hydroxy 4373⁵

Benzonaphthene



Δ¹ α¹(N), α - Benzonaphthenediacetic acid
 2,3,3a,4-tetrahydro diethyl ester
 5161⁵

1,3(2) - Benzonaphthenedione 2-butyl 4
 hydroxy 2140⁵

—, 2-ethyl 4-hydroxy- 2140⁵

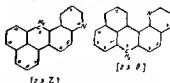
—, 4-hydroxy, 2140⁵

—, 4-hydroxy-2-propyl 2140⁵

1,6(8) Benzonaphthenedione 2,3,3a,4
 tetrahydro 5161⁵

—, and oxide 137⁵

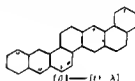
Benzonaphthenoquinoline,



Benzonaphtheno[3,3'-[quinalin 13-one
 P 3176⁵

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 P 3176⁵

Benzo[β]naphtho[1,2-λ]chrysene,



2717⁵

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 Naphthol

Benzonaphthene See *Ketone naphthyl*
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—, heat of vaporization of 1215⁵

—, hydrogenation of under reduced pressure
 4245⁵

—, polymerization of P 5177⁵

—, prepa of, with silica gel as catalyst, 912⁵

—, Raman effect of 873⁵

—, reaction of PhCl and with Na, 4248⁵

—, reaction with phenols and with phenolic
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—, reduction of, 1310⁵

—, salts 3960⁵

—, soln of in H₂O, 3960⁵

—, soln tension of Na, 4170⁵

—, m-(and p)-amino- P 3359⁵

—, 2-chloro- elec moment of 2698⁵

—, 2,6-dichloro- elec moment of 2698⁵

—, and reaction with MeONa 4860⁵

—, 2,6-dichloro reaction with NaOMe
 923⁵

—, m-hydroxy- prepa of 4248⁵

—, p-hydroxy, 936⁵

—, p-nitro elec moment of, 8⁵ 2698⁵

—, p-thiocyanato 2899⁵

—, 2,4,6-trichloro- elec moment of
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—, 2,4,6-trimethyl- See *Isodarylonic ic*
 Benzeneparadiacine See *Quinoxaline*

Benzenpenthene deriva, 5425⁵

Benzo[γ]phenanthridine



3314⁵

—, 5,6-dihydro 2,3,7,8-tetramethoxy 8-
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Benzophenazine (naphthophenazone phenanthrene)



o-Benzophenazine 5 bromo-, 945^o

— 5,7 dihydro 5 imino 7 phenyl

See Rosadulite

— 5,4,6 (and 2,3,4) trihydro 416^o

— 1,4,5 trimethyl 1114

Benzophenetide



p-Benzophenetide 2,6-dibromo 286

— 2,6-dibromo, 286^o 1617^o

Benzophenone (diphenyl ketone)



azone preps of 4244

boiling p at m p of 3324^o

columnal 112 acrolein 3419^o

deriv p

deriv halochromism of 2127^o

dundes 4043^o

dimethyl acetal preps of, 1798^o

mof anion of with HCl 862^o

p (p nitrophenylazo)phenylhydrazine

2132^o

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reduction of, with Ph₃CMgBr 4256^o

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— 5 acetyl 2 hydroxy 6 methyl, 3634^o

— 4 amino-6 bromo-6 iodo-, mixt with

4 amino-3,5-dibromobenzophenone as p

and f p of, 5614^o

— 4 amino 5,6-dibromo- mixt with 4

amino 3-bromo 5-nitrobenzophenone

as p and f p of, 5614^o

— 5 amino-4 phenyl and HCl 2127^o

— 5 benzyl 5,4 dimethyl, 3990^o

— p,p'-bis(dimethylamino)thio- 1239^o

— 6 bromo 2 hydroxy 6 methyl 3634^o

— p chloro-, reduction of with Ph₃CMg

Br 4256^o

— p-chloro p-methoxy- 4239^o

— 2 chloro-6 methyl, 5414^o

— 2,6 dichloro-, and oxide 4509^o

— 2,4-dichloro reaction with NaOMe,

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— 2,4-dichloro 6 methyl 5414^o

— 2,6-dichloro 6 methyl, 5414^o

— 2,2-dichloro-2-(trichloromethyl), 5414^o

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— o-hydroxy-, oxime, isomers, 2717^o

— p hydroxy-, deriva, 689^o

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— 4-hydroxy 2,6-dimethyl-, 929^o

— 2 hydroxy 6 methyl, acetate 3634^o

— 2-(2-hydroxy-1-naphthylazo)

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— o-methyl, chlorination of, and its de-

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— p nitro-, oximes, and dipole moments of

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— 2 nitro-4' phenylmercapto-, 2128^o

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— 2,4,6,2,4'-pentahydroxy- See

Maclean

— p phenyl-, reduction of, with Ph₃CMg

Br 4256^o

— 4,4'-selenobis[3 (and 4)-nitro-,

2128^o

— thio, 1239^o

preps of 2137^o

— 4,6' thiobis[3 (and 4') nitro-, 2128^o

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Benzo[*a*]phenanthroline,



3333^o

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— 9,11-dinitro-, 3331^o 3338^o

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none

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 —, 2-ethoxy 6-nitro-2,3-diphenyl- (7) 4883^a
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 —, 3-methoxy 3,4-diphenyl-, 5413^a
 —, 2-methoxy-2-nitro-3,3-diphenyl (7) 4883^a
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 —, 4-ethoxy-2-nitro 2,3-diphenyl (7) 4883^a
 —, 4-keto See *Chromone*
 —, 4-methoxy 2-nitro-2,3-diphenyl (7) 4883^a
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Benzopyrazole See *Indazole*

- 1,3-Benzopyrone See *Coumarin*
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 —, 2,3-dihydro 3-phenyl See *Flavone*
 —, 2-phenyl See *Flavone*
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4 ethyl 3 (4 ethyl 3(4) 5,6-benzoquinellidene-methyl) 5,6-iodide, 4270^a

4 ethyl-3-iodo-5,6-iodide 4259^a

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3-iodo-4-methyl 5,6-iodide 4259^a

4 methyl 3 (4 methyl 3(4) 5,6-benzoquinellidene-methyl) 5,6-iodide 4259^a

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— 4 - (3,4 - dimethylanilino) 4266¹
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Benzothiazine



1,4,5



2,4,1


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4550¹
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— 5 amino - 1 - [*o* and *p*] aminophenyl]-4 methyl 1250¹
— 1 amino-5 bromo- P 968¹
— 1 amino - 3 - bromo - 5 - chloro
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— 1 - amino - 5 bromo 3 - methyl
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— 1 amino 5 chloro - 3 - methyl
P 963¹
— 3 amino 1 (3,4 diaminophenyl)
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 Benzo[β]thiophanthrene 7 carbonyl
 acid 8 11 dihydro - 8 11 diketone - (7)
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Bursa

(H₂N CO NH NH CO \N₂)

1 2 3 4 5 6

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Buret

(H₂N CO\NH CO \N₂)

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- Química general aplicadas a la industria con practicas de laboratorio T. II Química org., 1009²
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- The Maning Chemist 1301¹
- The Chem. Age Year Book Dary and Directory (1931) 1301¹
- The United Kingdom An Industrial Com. and Financial Handbook, 1301¹
- Notions élémentaires de chimie métallurgie industrielle 1301¹
- Jahresbericht VII der chem. tech. Reichsanstalt, 1301¹
- Dosologie, 1302¹
- Kelly's Directory of, of Great Britain 1302¹
- Law and Industry 1302¹
- Otto Wenzel's Adressbuch und Warenverzeichnis der deutschen Reichs 1930-31, 1302¹
- Hilfsbuch für die Nachforschung in den deutschen Patentschriften der chem. Technologie 1302¹
- Siemens Jahrbuch (1930) 1302¹
- Syntheset et catalyses industrielles Laboratoires minérales, 1302¹
- Minerals in Modern Industry 1302¹
- British Chemicals and Their Manufacturers (1931), 1339²
- Annuario per le, e farmaceutiche 1928-1929, 1604¹
- Le bonnaire des produits chimiques com. 1604¹
- Annuaire de la Fédération des industries chimiques de Belgique—Les produits chimiques belges 1924¹
- Index to Acts of Parliament and Statutory Rules and Orders Affecting the, 1924¹
- Berl. Lunge chem. tech. Untersuchungsmethoden 1924 des Deutschen Reiches Jahrgang 1930-1931, 1924¹
- Gran. en. enciclopedia de química industrial 1925¹
- Ann. Repts. of the Soc. of the Progress of Applied Chemistry, 1930 Vol. XV 2215²
- Disionario di merceologia e di chimica applicata III. Nefelina. Soda 2215²
- Chemischste Taschenbuch für den praktischen Chemiker, 2496¹
- Auskaufsbuch für die 2785¹
- Möckner bergers Handbuch der der ausserordentlich Länder 2785¹
- Jahresbericht über die Leistungen der chem. Technologie für das Jahr 1930 2785¹ 4637²
- Chem. Engineering and Chem. Catalogue, 1931, 3099²
- Popular Industrial Chemistry 3099²
- Warenkatalog in Technologie, 3099²
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- Manuale della gestione chimica a della 3414¹
- Chemie und chem. Technologie technischer Stoffe 3414¹
- Technisches Auskaufsbuch 3414¹
- Federa. nonne aus fascista industrie chimiche ed affini Annuario (1930), 4071¹
- A History of the British 4071¹
- Chemie für Techniker 4071¹
- Química industrial 4071¹
- Tech. Taschenwörterbuch in 6 Sprachen, 4776¹
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First for Schools 1150 *Chemiker*
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
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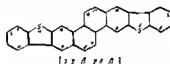
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Pocket Book* 140 *Interp. Cent.
Tables of Numerical Data* Pb. sec.
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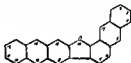
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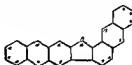
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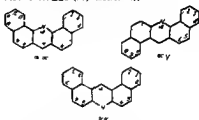
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$$\begin{array}{c} \text{aa}^* \end{array}$$

$$\begin{array}{c} \text{ay}^* \end{array}$$
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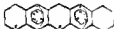
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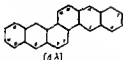


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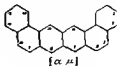
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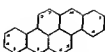
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[$\gamma\delta, \epsilon\lambda$]



[$\alpha\beta$]

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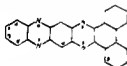
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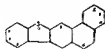
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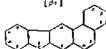
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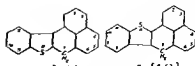
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[$\beta:$]

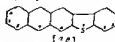


[$\gamma:$]



γ -[$\delta\epsilon\zeta$]

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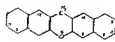
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[$\alpha\alpha'$]



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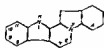
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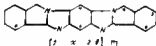
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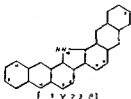
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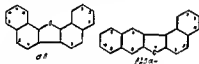


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Dinaphthofuran

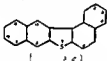


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Dinaphthothiophene

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—, 1,2-dihydro-2,2-dimethyl-2,4-

diphenyl-dimethyl ester 3993^b—, 1,2-dihydro-2,6-dimethyl-4-(*m*-nitro-phenyl)-1-phenyl diethyl ester 3908^b—, 1,4-dihydro-2,2-dimethyl-4-(*m*- and*p*) tolyl diethyl ester 5426^b

—, 1,4-dihydro-2,2-dimethyl-4-[2,2,4-

and 3,4)-xylyl] diethyl ester 5426^b

—, 1,2-(and 1,4 dihydro-4 isobutyl 1,2,2-

trimethyl diethyl ester 293^b

—, 1,2 or 1,4 dihydro-1,2,2,4,6 or

1,2,4,4,2) pentamethyl diethyl ester

293^b

—, 1,2-(and 1,4 dihydro 1,2,4,6 tetra-

methyl diethyl ester 293^b

—, 1,2 (or 1,4 dihydro-1,2,4,2 tetra-

methyl 2 or 4) phenyl diethyl ester

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1,2,2,2-Dioxadiazine



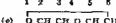
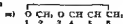
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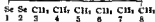
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New Technical Notes for Cleaners and Dyers, 821^a von Leder und Lederwaren, 839^a *The Printing of Textiles*, 1090^a
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 5941^a Handbook Encyclopaedia of, 752^a
 Textbook of the Materials of 752^a
 Elements of Chem 1301^a Chem
 Tables 1302^a Mech Engineers Hand
 book, 1302^a Tech Tabellen und For
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 Pocket Book, 1302^a Principles of
 Thermodynamics 1925^a Chemistry of
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 Catalogue 1931 3414^a Manuale dell'in
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
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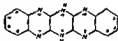
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Der Vitamingehalt der deutschen 1582¹,
Laboratoriumsbuch für den Nahrungs-
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Literature of Toxicology 1921¹,
Poisoning and Food borne infection
2493¹, *Treatise of chemical bromatology*
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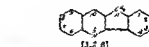
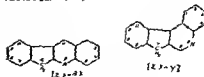
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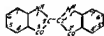
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— 4 - amino - 2 (4 - amino - 3 5 - dimethyl - 5 - pyrrolmethylene) - 3,3-dimethyl hydrobromides 961⁴⁶

— 4 - bromo - 2 (3 - bromo - 4 5 - dimethyl - 2 - pyrrolmethylene) - 3,5-dimethyl 4280⁴⁷

— 4 - bromo 2 - (4 - bromo - 5 5 - dimethyl - 5 - pyrrolmethylene) - 5,5-dimethyl HBr 3010⁴⁸

— 4 - bromo 2 (5 - bromo - 5 - ethyl - 4 - methyl 5 - pyrrolmethylene) - 3 5-dimethyl HBr 111⁴⁹

— 4 - bromo - 5 (5 - (bromomethyl) - 3 ethyl - 4 - methyl - 2 - pyrrolmethylene) - 3 5 - dimethyl, HBr, 4280⁵⁰

— 5 - bromo - 5 - (5 - bromo - 3 - methyl - 4 - propyl - 5 - pyrrolmethylene) - 3 - methyl - 4 - propyl, and HBr 3010⁵¹

— 5 bromo 2 - (5 - bromo - 4 - methyl 3 propyl - 5 - pyrrolmethylene) - 4 - methyl - 3 - propyl, and HBr 3009⁵²

— 3 - (5 - bromo - 2 - (β β - dicarboxyethyl) - 4 methyl - 5 - pyrrolmethylene) 4 (β β dicarboxyethyl) - 3 5 dimethyl and derivs 301⁵³

— 3 (5 bromo 3 - ethyl - 4 - methyl 5 pyrrolmethylene) - 5 - (bromomethyl) - 3 - methyl - 4 - propyl HBr 1257⁵⁴

— 5 (bromomethyl) - 2 - (5 - (bromo methyl) 3 methyl - 4 - propyl - 2 pyrrolmethylene) - 2 - methyl - 4 - propyl HBr 3010⁵⁵

— 5 - (bromomethyl) - 5 - (5 - (bromo methyl) - 4 - methyl - 3 - propyl - 2 pyrrolmethylene) - 3 - methyl - 4 - propyl- HBr 3010⁵⁶

— 5 - (bromomethyl) - 5 - (5 - (bromo methyl) - 4 - methyl - 3 - propyl - 2 pyrrolmethylene) - 4 - methyl - 3 - propyl HBr 3010⁵⁷

— 5 - (bromomethyl) - 2 - (5 - bromo - 4 methyl 3 - propyl - 2 - pyrrolmethylene) - 5 - methyl - 4 - propyl, derivs, 3009⁵⁸

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- 2 - (4 3 - diethyl - 3 - methyl 2 pyrrolmethylenes] - 4 3 - diethyl 3 methyl HBr 3356¹
- 2 - (3 3 - dimethyl - 4 - propyl 2 pyrrolmethylenes] - 3 3 - dimethyl 4 propyl - and HBr 3010¹
- 2 - (4 3 - dimethyl - 3 - propyl 2 pyrrolmethylenes] - 3 3 - dimethyl 4 propyl - and HBr 3010¹
- 2 - (4 3 - dimethyl - 3 - propyl 2 pyrrolmethylenes] - 4 3 - dimethyl 3 propyl - and HBr 3010¹
- 2 - (3 3 - dimethyl 4 - propyl 2 pyrrolmethylenes] 4 - ethyl 3 methyl HBr 1257¹
- 2 - (4 3 - dimethyl 3 pyrrolmethylenes] - 2 - ethyl - 4 3 - dimethyl HBr 112¹
- 2 - (4 3 - dimethyl - 3 pyrrolmethylenes] - 4 - ethyl - 3 3 - dimethyl HBr 4 80¹
- 3 - (ethoxymethyl) - 3 - (3 - (ethoxy methyl) 4 - ethyl 3 - methyl 2 pyrrolmethylenes] - 4 - ethyl 3 methyl - HBr 3356¹
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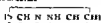
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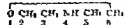
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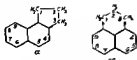


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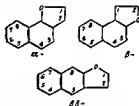


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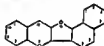
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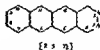
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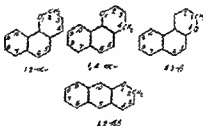
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Naphthoquinoline,



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decomposition of in acid soln., 1211²

—, 2 bromo, 945²

—, 4 (and 6) bromo 915²,²

—, 2,4-dibromo, 1517²

—, 8,6-dibromo- 945²

—, 4,6-dibromo- 946²

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—, 2,4,6 (or 4,7,6) trimethyl- 685²

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—, 6 acetamido 6 2,5,7-tetrabromo-1
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—, 6 aminoanilinotribromo, 1516²

—, 6 amino 6 2,6,6-tetrabromo, 1516²

—, 6 amino 6 3,6,7-tetrabromo- 1516²

—, 6 amino 6 6,7-tribromo, 1516²

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—, 6 anilino 6,6-dibromo 6 hydroxy
 512²

—, 6 benzamide t, P 420² P 1394²

—, 2 bromo-3 hydroxy-, 1517²

—, 6 bromo 6 hydroxy, 946²

—, 6,6-dibromo, compds with salts
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—, 6,6-dibromo 6 hydroxy-, and acetate
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—, 3,6-dibromo 6 hydroxy-, 946²

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—, 6,6-dimethyl, and phenylhydrazine
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—, 2 hydroxy, 945²

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—, 2,3,6,7-tetrabromo 6 diacetylimine,
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2-Naphthoquinone-1-chlorofluorene-6-
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—, 6-amino-6-bromo-N-phenyl-, 946²

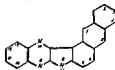
—, 6-anilino 6,6-dibromo-N-phenyl-,
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—, 2-bromo-2-hydroxy-N-phenyl-, 945²

—, 2-bromo-4-hydroxy-N-phenyl-, 946²

—, 2,6-dibromo-4-hydroxy-, 946²

Naphtho[6,6]-quinolal[6,6]diolide,



[1,2] → [1,2']

918²

Naphthostyryl (β -amino-1-naphthyl isocyan-
 2(1) para naphthylolone)

alkoxy deriva of P 965²

deriva P 523²

and deriva P 1266²

—, 6-methoxy P 965²

Naphthothiazole,



α



β

α -Naphthothiazole, 1-amino P 968²

—, 6-ethyl 1,6-dihydro-1-imino, 5169²

—, 6-ethyl 1,6-dihydro-1-nitrosolimine-
 5169²

—, 1-(6-ethyl 1(6)- α -naphthothiazolyl)
 denemethyl, deriva 704²

—, 1-(6-methyl 1(2)- α -naphtho-
 thiazolyl)denemethyl, deriva 704²

Naphthothiazolium compounds 2-ethyl 1
 [2-ethyl 1(2)-naphthothiazolyl
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1(6)- α -Naphthothiazolone, 6-ethyl, 5169²

Naphthothiophene,



α



β

β -Naphthothiophene, 5166²

—, nitro, 5166²

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—, 6-bromomethyl, 5167²

—, 2,6-carbonyls, and acylide,
 5167²

—, 2- α -carboxybenzoyl, and acylide,
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713 32c

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557¹⁵
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3 Oxabicyclo[3.3.1]nonane



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actives spectra of 1506

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— 4-(5-nitropiperonylidene) 5 phenyl
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1 2 4 Oxidazole (oxazole, furazolidazole)



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1 5 6 Oxidazole (furo[2,3-b]isoxazole)



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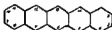
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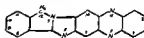


1 chloro- and salts 107²

8,8-diamino-, and condensation products of 3343²

8 Phenarsinol, semiquinone state of 4885²

Phenarsinol[8 8 - a]pseudoisindolo[8 8 - a]imidazole



[2 3 δ]—[2 3 α]

Phenarsino[8 8 - a]pseudoisindolo[8 8 - a]imidazole 12-one 3343²

Phenarsone See Anispyrine

Phenetrol See Bisacetyltol

Phenethyl alcohol (β-phenylethyl alcohol)
 $\text{PhCH}_2\text{CH}_2\text{OH}$

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and esters P 573²

glycine ester 1814²

manuf of from styrene oxide, P 963²

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α-amino- 4866²

α-amino reduction of 1810²

3 4 dimethoxy and esters 3632²

α dimethylamino- reduction of, 1810²

β-ethyl- dehydrates of 1817²

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α-methyl 1817²

hydrogenation of 504²

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α-nitro- and benzoate 4866²

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 pheacylacrylophenone 1240²

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diphenethylamine from 1810²

methoxy deriva of 5403²

mixt with benzyl alc β benzylphenethyl

amine and diphenethylamine from 1810²

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


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
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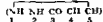
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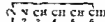
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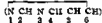
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2 **Pyrrroleacrylic acid** 3,3 - dicarboxy - 4-methyl 3,5-diethyl ester 112²

3 **Pyrrroleacrylic acid** 5 carboxy - 2,4-dimethyl diethyl ester, 1520²

5-ethyl 3 Me ester 962²

— 2 carboxy - 5 ethoxy - 2,4 - dimethyl diethyl ester, 1520²

2 **Pyrrrolealdehyde** and derivs, 2997²

— osone reduction of 3094²

— 1 benzoyl-, and phenylhydrazones, 2997²

— 2 chloroacetyl 2-ethyl-4 methyl, 3009²

— 4-cyano-3,3-dimethyl, and derivs, 698²

— 4,4-dimethyl 4 propionyl-, 3010²

— 2,2-dimethyl-4 propyl-, 3009²

— 4,4-dimethyl 3 propyl, 3010²

— 4 ethyl-, 3005²

— 5-ethyl 3 methyl-, 3356²

— 5-methyl and osone 3008²

— 1 p tolyl, and phenylhydrazones 2997²

2 **Pyrrrolealdehyde**, 2 - (4 - acetyl - 3,5-dimethyl - 2 - isopropylidenemethyl)-, 2,4-dimethyl-, 962²

- , 5 - (4 - ethyl - 3,3 - dimethyl - 2 - isopropylidenemethyl) 3,4 - dimethyl-, HBr 962¹
- Pyrrole blacks** See **Dyes**
- 1 - Pyrrolebutyric acid γ - keto, ethyl ester 1521¹
- 2 Pyrrolecarboxamide 1 butyl-, 651¹
- , V 1 dibutyl, 951¹
- , 3 ethyl, 3008¹
- 3 Pyrrolecarboxanilide, 4 - ethyl - 3 methyl, 5599¹
- 3 Pyrrolecarboxylic acid, esters 1825¹
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- , 4 - acetamido - 2,3 - dimethyl and ethyl ester 561¹
- , 1 acetyl 3 - hydroxy - 3 phenyl 1827¹
- , 3 acetyl 4 methyl, ring syntheses of 3067¹
- , 4 acetyl 3 - methyl - 3 - propyl, ethyl ester, 3010¹
- , 4 amino 3,3 dimethyl 961¹
- , 4 bromo - 5 - (4 - ethyl 5,3 dimethyl 2 isopropylidenemethyl) - 3 methyl HBr 111¹
- , 3 (bromomethyl) 4 (3,3 dicyanovinyl)-2 methyl- ethyl ester 562¹
- , 3 (bromomethyl) 3 methyl 3 propionyl ethyl ester 3009¹
- , 3 (bromomethyl) - 3 - methyl 3 propyl ethyl ester 3009¹
- , 5 (bromomethyl) 4 - methyl 3 propyl ethyl ester 3010¹
- , 4 (3 bromovinyl) - 3,3 dimethyl ethyl ester and chloro deriv 1520¹
- , 4 (3 - bromovinyl) 3 formyl - 3 methyl, and deriva, 1520¹
- , 1 butyl 951¹
- , 4 carbamyl 3,4 dimethyl, (2,3) ester 695¹
- , 3,3 - carbonylbis[3 - ethyl 4 methyl, and dimethyl ester 5000¹
- , 3 (3 carbonyl - 3 - ethyl 3 methyl 3 pyrrolimethyl) 3 ethyl 4 methyl 3 pyrrolimethyl - 4 ethyl 3 methyl diethyl ester 4009¹
- , 4 cyano - 3,3 - bis trichloromethyl ethyl ester 695¹
- , 4 cyano 3,3 - dimethyl-, 695¹
- , 4 - cyano - 4 - (hydroxymethyl) 3 methyl, ethyl ester 695¹
- , 4 - cyano - 3 - (hydroxymethyl) 3 (tribromomethyl), ethyl ester 695¹
- , 4 (3,3 - dicarboxyethyl) - 3,3 dimethyl, and ester 301¹
- , 4 - (3,3 dimethoxyethyl) 3,3 dimethyl-, ethyl ester 1520¹
- , 3,3 - dimethyl - 3 - (3 - nitrovinyl) compd with HNO₃ 962¹
- , 3,3 dimethyl-4 propionyl, 3010¹ ethyl ester 3009¹
- , 3,3 dimethyl 4 propyl, ethyl ester 3009¹
- , 4,3 dimethyl 3 propyl, ethyl ester 3010¹
- , 3,3 - dimethyl 4 (3,3 - tribromo propyl) ethyl ester 1520¹
- , 3,3 - dimethyl 4 - trichloroacetyl ethyl ester 3009¹
- , 3 - (ethoxymethyl) 4 - ethyl - 3 methyl, ethyl ester, 4009¹
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- , 4 - ethyl - 3 - (methoxymethyl) - 3 - methyl, ethyl ester 4009¹
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- , 5,3 methylenebis[4 - acetamido 3 - methyl diethyl ester 561¹
- , 5,4 methylenebis[3 - methyl - 4 - propyl diethyl ester 3009¹
- , 5,4 methylenebis[4 - methyl - 3 - propyl, and diethyl ester, 3010¹
- , 5 - methyl - 3 propionyl 3 - propyl, ethyl ester 3010¹
- , 5 methyl 3 propyl ethyl ester 3010¹
- 5 Pyrrolecarboxylic acid, 3 - (4 acetyl - 3,3 dimethyl - 3 - isopropylidene methyl) - 3 hydroxy - 4 - methyl ethyl ester 4010¹
- , 3 acetyl 5 methyl and deriva 3008¹
- , 3 acetyl 3 methyl ethyl ester, and deriva 3008¹
- , 1 - (bromomethyl) 3 hydroxy - 4 - methyl, ethyl ester, 4010¹
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- , 1 - (3 - carbonylphenyl) - 3,3 - dimethyl *d* di acid and bromine salts 5411¹
- , 1 - (chloromethyl) 5 hydroxy - 4 methyl ethyl ester 4009¹
- , 3 (3,3 dimethyl 3 isopropylidene methyl) 3 hydroxy - 4 - methyl, ethyl ester 4010¹
- , 3,3 dimethyl 1 - (3 - methyl cyanide) 5411¹
- , 2,3-dimethyl 1-*n*-tolyl 5410¹
- , 3 - (4 ethyl 3,3 - dimethyl - 3 - isopropylidenemethyl) - 5 - hydroxy - 3 methyl 4010¹
- , ethyl ester 4010¹
- , 3 - α hydroxyethyl - 5 - methyl, ethyl ester 3008¹
- , 5 hydroxy - 4 methyl - 3 - (trichloromethyl) ethyl ester 4009¹
- , 3 (3 methyl - 3 propyl 3 isopropylidenemethyl) 3 - propyl, HBr, 3010¹
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- , 4-ethyl 3 propyl, diethyl ester, 3010¹
- , 3 formyl 3 propyl, and deriva 3010¹
- , 5-methyl 3 propyl, 3010¹ ethyl ester 3010¹
- 3,3 Pyrroledicarboxylic acid 3 - chloro - 4 methyl 5 ethyl ester 962¹
- , 3 (3 chlorovinyl) - 4 - methyl, and 5 ethyl ester, 962¹
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- , 3 ethyl 4 methyl-, 5000¹
- , 3 formyl 4 methyl- and deriva, 962¹
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- 2,4 Pyrroledinitrile 3,3 dimethyl-, 695¹

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1 - Pyrrolidinepropanol [3 11 pyrrolidin] propanol]

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8 - Pyrrolidone, 1,2 - diphenyl - 2 - phenyl imino formation of 699²

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— 1 methyl, reaction with Gagnard reagents, 102³

— 1 phenyl 2-(phenylimino)-, 3346¹

Pyrroline (dihydropyrrole)

derives prepa ul 102⁴

— keto- See Pyrrolene

Δ¹ Pyrroline, 2 substituted derive of, prepa of 2997¹

— 8 benzyl and salts 2997¹

— 1,2 dimethyl and salts 102³

— 8 ethyl and salts 2997¹

— 8-ethyl 1 methyl and salts 102⁴

— 1 methyl 2 phenyl, and salts 102³

— 1 methyl 2 propyl and perchlorate 102³

— 2 phenyl, 2997¹

Δ² Pyrroline - Δ³ = - acetic acid 2 keto 3 methyl, 102⁴

Δ⁴ 2 Pyrrolinol 1,4 3 triphenyl 3995

Pyrrolobenzimidazole



1 Pyrrolobenzimidazole 8 8 dihydro 701¹

2 Pyrrolo 4 chloro 8 8 methyl 5 (trichloromethyl) acetate 4009¹

— 4 ethyl 8 8 (4-ethyl 8 8 di methyl 2433¹

8 Pyrrolo 1 acetyl 8 phenyl and acetate 1827

8 8 Pyrrolo 8 amyl 1 methyl 1484¹

— 8 hexyl 1 methyl 1484¹

Pyrrolopyrazine



2 2 - Pyrrolopyrazine 1,4 diene 8 3 6 7

8 8a hexahydro 3 methyl 77¹

Pyrrolopyridazine



Pyrrolo[3,4 - s]pyridazine - 1,4 - diene 2 3 dihydro 8 7 dimethyl 1826¹

— 2 2 dihydro 8 7 diphenyl- 1826

Pyrrolo[3,5 - s]pyridazine 4(3) - one 2 3 dimethyl-, 3008¹

— 2 7 dimethyl 8 phenyl-, 3008

8 Pyrrolopyridine See Pyrrolidine

Pyrrolopyrrole,



4 3 Pyrrolopyrrol 1(8) one and derive 1500¹

— piperonylidene 1821¹

Pyrroloxazine



Pyrrolo[3,2 - s]-1,2 oxazin - 4(1) - one, 8 7 dimethyl, 3008¹

Pyrromethane, 8,2 dicarboxy 4,4 di propyl 8 8 dimethyl * and diethyl ester 3010¹

— 4,4 dimethyl - 8,2 - dipropyl 8 8 dicarboxy *, 3009¹

— 2,3,4,3' - tetramethyl 4 4 - di cyano * 608¹

— 2,3,3,3' - tetramethyl - 4,4 - di propionyl- * 3010¹

— 4,3,5 - trimethyl - 8 - ethyl 2 carbethoxy-4 propionic acid- * methyl ester 4009¹

Pyrromethene (See also under Methene)

derives of 2432¹

— 3 - bromo - 8 bromomethyl 4 8 dimethyl-4 4 dipropyl * derive 3009¹

— 8 8 dibromo 4 4 dimethyl 2 8 dipropyl * and HBr 3009¹

— 8 8 dibromo 4 4 - dipropyl - 8 8 dimethyl * and HBr 3010¹

— 4,4 - dibromo - 8 8 8 8 - tetra methyl * HBr 3010¹

— 8 8 dibromo - 4 8 8 trimethyl 4 propionyl * and HBr 3010¹

— 8 8 dicarboxy - 4 8,8 tri methyl 4-ethyl * and HBr 112¹

— dicarboxy 4 8 8' trimethyl 4 propionic acid * HBr, 113¹

— 2 8 - dimethyl - 8,8 diethyl * 3356¹

— 3 8 dimethyl - 4,4 diethyl - 2 8 bis(8,8 dimethyl - 8 - acetylpyrrol methyl)-, and HBr 3356¹

— 2 8 - dimethyl 4 4 diethyl 8 8 di(ethoxymethyl)-, HBr 3356¹

— 3 2 dimethyl - 4,4 diethyl 2 8 di(ethylmercaptomethyl) * HBr 3356¹

— 2 8 - dimethyl 4 4 diethyl 2 8 di(methoxymethyl) * and HBr 3356¹

— 3,8 dimethyl 4 4 dipropionic acid 8 8' bis(2 4 - dimethyl - 8 - acetylpyrrolmethyl) * derive, 3356¹

— 2 8 - dimethyl 4 4 dipropionic acid - 8 8 bis(2 4 - trimethyl pyrrolmethyl) * derive, 3356¹

— 8 4 dimethyl 8 4 dipropionic acid - 8 8 dibromomethyl *, HBr 1257¹

— 3,3' dimethyl 4 4 dipropionic acid - 8,2 di(ethoxymethyl) * derive, 3356¹

— 2,2 - dimethyl - 4 4 - dipropionic acid - 8 8 di(ethylmercaptomethyl)- * derive 3356¹

— 3,8' - dimethyl - 4,4' - dipropionic acid - 8 8 - di(methoxymethyl) * derive, 3356¹

— 2,8' - dimethyl - 4,4' - dipropionic

- acid - 3,3' - di(methylmercapto-
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- , 4,3' - dimethyl - 3 - ethyl - 4 - propyl -
5 bromo 5 bromomethyl *, HBr,
1257¹
- , 3,4 - di - β - methylmalonic acid -
4,3,3 trimethyl 3 bromo-*, dervs.,
3031¹
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ethyl * HBr, 3356¹
- , 3,3 - dimethyl - 4,4,3,3 - tetra-
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- , 4,3 dipropyl - 3 - methyl - 3 -
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- , 3 - ethyl - 4,3,3' - trimethyl - 3 -
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3356¹
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- , 3 - propionic acid - 4,5,3 - trimethyl -
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- , 4,3,3,3 - tetramethyl 4 carbeth-
oxy *, HBr 4280¹
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- , 3,3,3,3 tetramethyl 4 cyano 4
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- , 3,3,3,3 tetramethyl 4,4 di
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- , 4,4,3,3 tetramethyl 3,3 - di-
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- , 4,4,4,5 tetramethyl 3 ethyl *
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- , 4,3,3' - trimethyl - 3 ethyl - 3
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- , 4,4,5' - trimethyl 5 - ethyl 5 -
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- , 4,4,3' trimethyl - 3 - ethyl - 3
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
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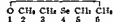
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
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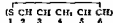
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Triphenyl 1,1,1-trimethyl

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 houses with HCN to destroy 9 13

Triamid 1 1

Triazine $\begin{matrix} \diagup & \diagdown \\ \text{N} & \text{N} \\ \diagdown & \diagup \\ & \text{N} \end{matrix}$

der 1 41^a

— 3 1 acenaphthyl 1 4 nitro
 phenyl 45^a

— 3 benzyl 1 benzoyl 1 4
 nitrophenyl 45^a

— 1 4 bromophenyl 1 3 diphenyl
 1 4 3 1 1

— 1 bromophenyl 3 methyl 3
 phenyl 1 4 5 6

— 3 3 3 dicyclo 4 phenyl 1 pyrrolidyl
 1 4 nitrophenyl 3 phenyl 69^a

— 1 3 dimethyl thioamides decompose of
 1 1 1

— 1 3 diphenyl emulsion potential
 1 4 5

— 1 4 1 4 1 4 1 4 1 4
 reduction of 4 4 4

— 3 ethoxy 3 ethyl 1 4 nitrophenyl
 540^a

— 3 isopropyl 3 methoxy 1 4
 nitrophenyl 540^a

— 3 methoxy 3 methyl 1 4
 nitrophenyl 540^a

— 3 methyl 1 3 diphenyl 1 oxide
 1 4 5

— 1 phenyl 3 phenylazophenyl
 1 4 5

— 1 3 3 triphenyl 1 oxide 2120^a

Triazine $\begin{matrix} \diagup & \diagdown \\ \text{N} & \text{N} \\ \diagdown & \diagup \\ & \text{N} \end{matrix}$

der 1 2 3 4 5 6
 P 1266 1531^a P 1539^a P 184

der 1 2 3 4 5 6
 mercapto der 1 2 3 4 5 6

— 3 acetamido 4 amino 4 benzyl
 909

— 3 acetamido 4 amino 4 benzyl
 909

— 3 4 bis nitrophenyl 4 benzoyl de
 rivs of P 1266

— 3 4 diamino 4 benzyl and der 1
 909

— 3 4 diamino 4 methyl 909

— 3 4 diamino 4 benzyl and der 1
 909

— 3 hexahydro 1 3 3 trimethyl reduc
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— 3 hexahydro 1 3 3 tripropyl prep
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— 3 3 3 triethylhexahydro reduction of
 452^a

— 3 4 6 triphenyl- P 117^a

— 3 4 6 tri-1-amine 3 anthra
 quinonylmercaptan- 2^a 28^a

— 3 4 6 tri-1-amine 3 anthra
 quinonylmercaptan- 2^a 28^a

— 3 4 6 tri-1-amine 3 anthra
 quinonylmercaptan- 2^a 28^a

— 3 4 6 tri-1-amine 3 anthra
 quinonylmercaptan- 2^a 28^a

— 4 amino 6-ethyl-, and der 1, 704^a

— 4 amino 6-methyl-, and der 1, 704^a

— 4 amino 6-phenyl-, and der 1, 704^a

— 4 amino 6-propyl-, and der 1, 704^a

— 4 amino 6-ethyl-, and der 1, 704^a

— 4 amino 6-ethyl-, and der 1, 704^a

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— 4 amino 6-ethyl-, and der 1, 704^a

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ABBREVIATIONS USED IN CHEMICAL ABSTRACTS

[α] specific rotation ([α] _D ²⁰ , for 20° and sodium light)	concd concentrated
abs absolute	concg concentrating
Ac acetyl (AcH acetaldehyde AcOH, acetic acid)	concn concentration
a c alternating current	cond conductivity
addn addition	const constant
addnl additional	contg containing
alc alcohol, alcoholic	cor corrected
alk alkaline (not alkali)	* c p candle power
alky alkalinity	c p chemically pure
Am amyl	crit critical
amp ampere(s)	cryst crystalline (not crystallize)
amt amount	crystd crystallized
anhyd anhydrous	crystu crystallization
app apparatus	cu m cubic meter
approx approximate, approximately	d density (d ₁₅ specific gravity at 15° referred to water at 4°, d ₄ ²⁰ , at 20° referred to water at the same temperature)
aq aqueous	d c direct current
assoc associate(s)	decompd decomposed
assocd associated	decompg decomposing
assocn association	decompn decomposition
at atomic	derlv derivative
atm atmosphere(s), atmospheric	det determine
at wt atomic weight	detd determined
A U Ångström unit(s)	detg determining
av average (except as a verb)	detu determination
b (followed by a figure denoting temperature) boils at, boiling at (similarly b ₁₅ at 15 mm pressure)	diam diameter
bacteriol bacteriological	dl dilute
biol biological	dild diluted
b p boiling point	diln dilution
B t u British thermal unit(s)	dissoc dissociate(s)
Bu butyl (normal)	dissocd dissociated
Bz benzoyl (BzH benzaldehyde BzOH, benzoic acid)	dissocn dissociation
cal calorie(s)	distd distilled
calc calculate	dstg distilling
calcd calculated	distn distillation
calcg calculating	elec electric, electrical
calcn calculation	e m f electromotive force
cc cubic centimeter(s)	equil equilibrium
c d current density	equiv equivalent
chem chemical (not chemistry)	est estimate
cm centimeter(s)	estd estimated
coeff coefficient	estg estimating
com commercial	estu estimation
compd compound	Et ethyl (Et ₂ O, ethyl ether)
compn composition	evap evaporate
conc concentrate	evapd evaporated
	evapg evaporating
	evapn evaporation

examd	examined	pathol	pathological
examg	examining	p d	potential difference
examu	examination	Ph	phenyl
expt	experiment	pharmacol	pharmacological
exptl	experimental	phys	physical
ext	extract	physiol	physiological
extd	extracted	pos	positive
extg	extracting	powd	powdered
extn	extraction	p p m	parts per million
f p	freezing point	ppt	precipitate
ft	foot, feet	pptd	precipitated
g	gram(s)	pptg	precipitating
h p	horsepower	pptn	precipitation
hr	hour	Pr	propyl
in	inch(es)	prep	prepare
inorg	inorganic	prepd	prepared
insol	insoluble	prepg	preparing
kg	kilogram(s)	prepn	preparation
kg-cal	kilogram calorie(s)	qual	qualitative
kv	kilovolt(s)	quant	quantitative
kv amp	kilovolt ampere(s)	recrystd	recrystallized
kw	kilowatt(s)	recrystn	recrystallization
l	liter(s)	resp	respectively
lab	laboratory	r p m	revolutions per minute
lb	pound(s)	sapon	saponification
M	molecular (as applied to concn)	sapond	saponified
m	meter(s) also (followed by a figure denoting temperature) melts at melt	sapong	saponifying
mgat		sat	saturate
ma	milliampere(s)	satd	saturated
manuf	manufacture	saig	saturating
manufd	manufactured	satu	saturation
math	mathematical	sec	second(s)
max	maximum	sep	separate
Me	methyl (MeOH methanol)	sepd	separated
mech	mechanical	sepg	separating
mfg	manufacturing	sepn	separation
mg	milligram	sol	soluble
min	minimum (also minute(s))	soln	solution
ml	milliliter(s)	soly	solubility
mixt	mixture	sp	specific
mol	molecule molecular	sp gr	specific gravity
mol wt	molecular weight	sq cm	square centimeter(s)
m p	melting point	sym	symmetrical
mv	millivolt(s)	temp	temperature
n	index of refraction (n_D^{20} for 20° and sodium light)	U S P	United States Pharmacopeia
N	normal	v	volt(s)
neg	negative	vol	volume (not volatile)
no.	number	w	watt(s)
org	organic	w p c	watts per candle
		wt	weight

III. FORMULA INDEX

KEY

In using this index the following should be borne in mind

1 The Formula Index is supplementary to the Subject Index, in no sense does it replace any part of the latter. Unnamed, incompletely described compounds can often be given specific entry in the Formula Index only

2 Inorganic as well as organic compounds have been entered

3 Entries under their own formulas are made for all strictly inorganic and strictly organic compounds and for the true organic derivatives of organic compounds, both addition compounds and true reaction derivatives (this includes esters, hydrazones, methohalides, oximes, picrates, semicarbazones, etc). Inorganic salts of organic acids and inorganic addition compounds of organic compounds (hydrohalides, chloroplatinate, perchlorates, sulfates, etc) are not given separate entries but are indicated in modifying phrases under the formulas of the compounds from which they are derived (under the acid in the case of a salt). Salts of formic, acetic and oxalic acids are exceptions, these are entered as such

4. The arrangement of symbols in formulas is alphabetical except that in carbon compounds C always comes first, followed immediately by H if hydrogen is also present

5 The arrangement of formulas is also alphabetical except that the number of atoms of any specific kind influences the order of compounds e g, all formulas with 1 C come before those with C₂, thus CCl₂O, CCl₄, CHCl₃, CHN, CHNO, CH₂Br₂, CH₂O, CH₂Cl, CO, C₂Ca, C₂H₂O₂

6 The arrangement of entries under any heading is strictly alphabetical according to the preferred names of the isomers

7. Entries consist of (a) the formula (in bold-face type), (b) the name as it has been entered in the Subject Index (in light-face Roman type; it should be noted particularly that the part of the entry in this type is the exact equivalent of the formula given), (c) occasionally a modifying phrase or word such as "Ca salt" or "hydrochloride" (in italics, different type being used to set off that part of a compound being indexed which is not represented in the formula used, see ¶ 3 above), (d) the page reference and (e) the fraction of the page in months (indicated by a small superior numeral) in which the compound will be found

8 Cross-references are to the Subject Index

9 Water of hydration is not made a part of the formulas indexed but is usually given in light-face type following the formulas

10 Polymers having different names and recognized as different substances, e g, acetaldehyde and paraldehyde, are all entered under their accepted formulas. But definite compounds for which different polymeric formulas are in use are entered under the simplest formula only with cross references under the polymeric formulas

11 A straight line, thus —, used under some headings to avoid repetition of names, always stands for the name of the 'index compound,' i e, that part of the preceding name (inverted) which comes before the comma

12 'P' before a page number indicates that the abstract is of a patent.

13 The names beryllium (Be), columbium (Cb), hafnium (Hf) and illium (Il) are given preference over glucinum (Gl), niobium (Nb), celcium (Ct) and florentium (Fr), respectively, for these elements

The Key to a formula index is necessarily lengthy. It would not be correct to conclude from this that this index is difficult to use. Experience is to the contrary.

INTRODUCTION

General purpose and policy The location of chemical compounds in an index by names is at times uncertain because names vary and in the case of complex compounds may be difficult to ascertain. New compounds are constantly being prepared, which, if named at all, may receive more than one name which is justified from one point of view or another and the possibilities of incorrect names are great. Since the kinds and number of component atoms of a chemical compound are unvarying characteristics the supplementary *Formula Index to Chemical Abstracts* is published for the purpose of eliminating this element of uncertainty in the Subject Index. Except that unnamed compounds are no longer entered under the heading 'Compound,' the Subject Index is in no way altered on account of the Formula Index. In the Subject Index related compounds are *grouped* rather effectively and to good use by the present system of indexing on the basis of 'parent compounds' or more accurately 'index compounds', in the Formula Index the certain location of *individual* compounds is the primary consideration. The Subject Index is more convenient to use in some respects and it frequently contains more information in the form of modifying phrases. The repetition of modifying phrases in the Formula Index beyond necessary brief phrases to indicate derivatives has been avoided as unnecessary for the accomplishment of the real purpose of this index, as stated above, and as inconsistent with necessary economy. Isomerism is not indicated in the Formula Index in cases in which the names differ only in position numbers or letters, but it always is in the Subject Index when known. Ready reference to the Subject Index for the purpose of locating information regarding related compounds is made possible by the use in the Formula Index of names following the formulas written exactly as they appear in the former index.

All new compounds and all compounds for which new data are given have been entered. Most of the compounds have been entered under their own formulas. Some departure from a policy of making separate formula entries for derivatives of all kinds is

reasonable and accords with custom. The only departures in this index (see ¶3 of the Key) have been in classes of compounds the natures of which would be more than likely apparent to the investigator. The interest in a salt of a complex organic acid, for example, is likely to be mainly in the acid and it is considered more valuable to have the record of it under the formula of the acid for the use of searchers looking up that acid.

In the case of unnamed organic compounds where possible the class, as acid, source and melting or boiling point have been given.

Cross-references to the Subject Index have been used for all simple inorganic compounds, for all minerals of definite composition and for the organic compounds more commonly met with, in general, whenever it seemed likely that users of *Chemical Abstracts* would predominately refer to the Subject Index.

The System. The system as described in the Key is with slight modifications that worked out by Dr Edwin A. Hill,¹ and used by the Classification Division of the U. S. Patent Office. This system is preferred to the system of *Richter's Lexikon* because of its greater simplicity and its applicability with equal fitness to inorganic as well as to organic compounds.

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¹ J. Am. Chem. Soc. 22, 478-94(1900)

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 CO₂ See Carbonyl sulfide
 CO₂ See Carbon dioxide
 CO₂Pb See Cerussite Lead carbonate
 CO₂Br See Strontianite Strontium carbonate
 CO₂Th See Thallium carbonate
 CO₂Zn See Smithsonite Zinc carbonate
 CS See Carbon sulfide
 CS₂ See Carbon disulfide
 CSI See Carborandum Silicon carbide
 CTa See Tantalum carbide
 CTI See Tindium carbide
 CV See Vanadium carbide
 CW See Tungsten carbide
 CZr See Zirconium carbide
 CAgKN₂ Potassium argentocyanide 1160¹ 5625¹
 CAgEN₂Se₂, 1754¹
 C₂Be See Beryllium carbide
 C₂BeCaO₂ See Beryllacalcite
 C₂BaNa₂ See Barium cyanide
 C₂BeN₂Se₂ See Barium thiocyanate
 C₂Br₂ Acetylene, dibromo- 734, P 711¹
 C₂Br₂Cl₂ Ethylene 1,2-dibromo-1,2-dichloro-, 4218¹
 C₂Br₂Cl₂ Ethane dibromodichloro- 1133¹
 C₂Br₂Cu₂O₂ 2937¹
 C₂Br₂Mg₂ Ethylenedimagnesium bromide, 4525¹
 C₂Br₂Cl₂ Ethane tribromodichloro-, 1133¹
 C₂Br₂ Ethylene tetrabromo-, P 711¹
 C₂Br₂F Ethane, pentabromodifluoro-, 1133¹
 C₂Br₂ Ethane hexabromo- 1133¹
 C₂Br₂O₂ Sulfone bis(tribromomethyl), 1487¹
 C₂Br₂K₂N₂Se₂ 459¹
 C₂Ca See Calcium carbide
 C₂CaN₂ See Calcium cyanide
 C₂CaNa₂O₂ (See also Gaylussite)
 Calcium sodium carbonate 568
 C₂CaO₂ See Calcium oxalate 45 hexahydrate
 C₂CdN₂ See Cadmium cyanide
 C₂CdN₂ 3 See Cadmium thiocyanate
 C₂Ce Cerium carbide 11¹
 C₂Cl₂ Acetylene dichloro- 69¹ 72¹ P 711¹, 4217¹
 C₂Cl₂Cu₂O₂ 2937¹
 C₂Cl₂ Ethylene 1,2-dichloro-1,2-diiodo-, 69¹ 4218¹
 C₂Cl₂N₂O₂ Dichlorodicyanamide, 663¹
 Furazan dichloro- 5894¹
 C₂Cl₂O₂ Oxalyl chloride 3347¹ 4246¹
 C₂Cl₂O₂Pb 5825¹
 C₂Cl₂N₂ Acetonitrile trichloro-, 3960¹ hydrobromides 3960¹
 C₂Cl₂ See Ethylene, trichloro-
 C₂Cl₂O₂ Diphosgene 1229¹
 C₂Cl₂ Ethane hexachloro- 1133¹ 3273¹, P 3362¹
 C₂Co₂K₂O 3, 589¹
 C₂CoN₂ See Cobalt cyanide
 C₂CoN₂S₂ See Cobalt thiocyanate
 C₂Co₂ Cobalt carbide 2937¹
 C₂Cr₂ See Chromium carbide
 C₂Fe Fibrous hexafluoro-, 2525¹
 C₂FeN₂ Iron cyanide, 2694¹
 C₂HBr₂ Ethylene tribromo- 276¹
 C₂HCl₂ See Ethylene trichloro-
 C₂HCl₂O See Chloral
 C₂HCl₂O₂ See Acetic acid trichloro-
 C₂HCl₂ Ethane pentachloro- 4793¹, 5322¹
 C₂HCl₂O₂ Ether dichloromethyl trichloromethyl-, 911¹
 C₂H₂F₂O₂ See Acetic acid, trifluoro-
 C₂H₂N₂O₂ Furazan, 3-iodo- 5894¹
 C₂H₂K₂ Potassium carbide, 11¹
 C₂H₂Mg₂O₂ Magnesium potassium carbonate, 1174¹
 C₂H₂Li₂NaO₂ + 2H₂O 470¹
 C₂H₂Li₂O₂ + 3/2 H₂O 470¹
 C₂H₂N₂O₂ 2,5-Endoxy 1,3,4 triazole 1504¹
 C₂H₂Na₂ See Sodium acetylides
 C₂H₂ See Acetylene
 C₂H₂As₂Cl₂ Arsine dichloro(β-chlorovinyl), 3316¹
 C₂H₂Br₂Cl₂O₂ Glyoxime, bromochloro-, 70¹, 80¹
 C₂H₂Br₂Mg₂N₂ Cyanomethylmagnesium hydride, 1210¹
 C₂H₂Br₂ See Ethylene, dibromo-
 C₂H₂Br₂ Ethane tetrabromo-, 276¹, 1397¹, 3565¹
 C₂H₂ClO₂PS Liquid, bp 93¹ from HSCl₂CO₂H and PCl₃ 914¹
 C₂H₂Cl₂ See Ethylene, dichloro-
 C₂H₂Cl₂N₂O₂ Allophanoyl chloride γ-chloro-, 635¹
 Glyoxime dichloro-, 80¹
 C₂H₂Cl₂O₂ Acetaldhyde, dichloro-, 5412¹, 5428¹
 Acetyl chloride chloro-, P 711¹, 914¹, P 1843¹ 2365¹

- C₂H₂Cl₂O₂ See *Acetic acid dichloro-*
 C₂H₂Cl₂O₂ Ethane trichloroformate, P 4011
 C₂H₂Cl₂O₂ Acetamide, *n*-trichloro- 3960p
 C₂H₂Cl₂O₂ See Ethane trichloroformate
 C₂H₂Cl₂O₂ Copper formate 721p 4067
 C₂H₂Cl₂O₂ See Acetate
 C₂H₂Cl₂O₂ Iron carbonate 4173
 C₂H₂Cl₂O₂ Ethylene dichloride 929
 C₂H₂Cl₂O₂ Manganese formate 4162
 C₂H₂Cl₂O₂ Acetic acid chloro- 4720
 C₂H₂Cl₂O₂ See Acetic acid
 C₂H₂Cl₂O₂ See Chloral
 C₂H₂Cl₂O₂ See Oxalic acid
 C₂H₂Cl₂O₂ See Ethylene bromine
 C₂H₂Cl₂O₂ See Acetyl bromide
 C₂H₂Cl₂O₂ See Acetic acid bromine
 C₂H₂Cl₂O₂ Carbonyl bromide oxime 716
 C₂H₂Cl₂O₂ See also Acetic acid
 C₂H₂Cl₂O₂ Ethanol trichloro- 2201 1 4004
 C₂H₂Cl₂O₂ Bromal hydrate 1910
 C₂H₂Cl₂O₂ See Ethylene, chloro-
 C₂H₂Cl₂O₂ Glyoxime chloro- 1459
 C₂H₂Cl₂O₂ (See also Acetyl chloride)
 Acetyl chloride 2363
 C₂H₂Cl₂O₂ Acetic acid chloroethyl 914
 C₂H₂Cl₂O₂ See 1-ethyl acid chloro-
 C₂H₂Cl₂O₂ Methionine acid chloroethyl
 and *n*-ethyl 715, P 1794
 C₂H₂Cl₂O₂ Ethane trichloro- P 715, P 1794
 P 3362, 3363
 C₂H₂Cl₂O₂ Ethane, 2 trichloro- 1855
 C₂H₂Cl₂O₂ See Chloral hydrate
 C₂H₂Cl₂O₂ See Acetic acid, chloro-
 C₂H₂Cl₂O₂ See Potassium acetate
 C₂H₂Cl₂O₂ See also trichloro-
 Methane trichloro- 4705
 C₂H₂Cl₂O₂ Glyoxime and oxime 1450
 C₂H₂Cl₂O₂ Acetic acid ethyl 4779
 C₂H₂Cl₂O₂ 1, 2 Oxidant 2 amino- 406
 C₂H₂Cl₂O₂ Fudominothioethanol 513
 1, 2, 3, 4 Thioacetone 2 mercaptan 5-
 amino- 513
 Ureole dichloro- 515
 C₂H₂Cl₂O₂ See Sodium acetate
 C₂H₂Cl₂O₂ The form acetate 2085 5030
 C₂H₂Cl₂O₂ See Ethylene
 C₂H₂Cl₂O₂ Ethene bromochloro- 721p 3957
 C₂H₂Cl₂O₂ Ethane trichloro- 3404p
 C₂H₂Cl₂O₂ Acetamide Y bromo- 647
 C₂H₂Cl₂O₂ See Ethane 4 bromo-
 C₂H₂Cl₂O₂ See Calcium carbonate
 C₂H₂Cl₂O₂ Methionine acid chloroethyl
 oxime *n*-ethyl, 715
 C₂H₂Cl₂O₂ See Ethane, dichloro-
 C₂H₂Cl₂O₂ Ethyl dichloromethyl P 2
 4522
 C₂H₂Cl₂O₂ Ethane sulfonyl chloride (chloro-
 290p
 C₂H₂Cl₂O₂ Sulfuric acid, dichloromethyl
 ester P 322
 C₂H₂Cl₂O₂ Compd from Fe ClO₄ and MeCl
 913
 C₂H₂Cl₂O₂ See Ethane, dichloro-
 C₂H₂Cl₂O₂ Sulfonic acid, acetyl, *n*-ethyl,
n-ethyl, 4520
 C₂H₂Cl₂O₂ Ethane diamine, 3324
 Glyoxime, oxime, 3329
 C₂H₂Cl₂O₂ Acetaminophen, 2363
 C₂H₂Cl₂O₂ Ethylene oxide, 209p
 C₂H₂N₂ Guanidine, *n*-cyan, 937, 3229p
 3897
 C₂H₂N₂ See Acetaldehyde Ethylene oxide 1-ethyl
 alcohol
 C₂H₂N₂ Acetic acid, thio-, 3080, 4059
 Acetic acid, thio-, 314, 2659
 C₂H₂N₂ (See also Acetic acid, and methyl ester)
 under Formic acid 1
 Glycolaldehyde, P 3138
 C₂H₂N₂ Acetic acid, mercapto-, 918, 4041,
 4254, 5191
 C₂H₂N₂ See Glyoxime and Peracetic acid
 C₂H₂N₂ Acetic acid, amino-, and salts, 277
 C₂H₂N₂ Methionine acid, formyl, 715
 C₂H₂N₂ Ethyl, 5883
 C₂H₂N₂ Acetic acid, amino-, 1798
 C₂H₂N₂ See Ethane bromo-
 C₂H₂N₂g Ethylmagnesium bromide, 69,
 504, 1799, 2119, 2424, 3959, 4254
 C₂H₂N₂ See Ethane, chloro-
 C₂H₂N₂g Ethane chloromercuri-, 3979
 C₂H₂N₂g Ethylmagnesium chloride, 3958
 C₂H₂N₂ (See also Ethane, 2-chloro-)
 Ether chloromethyl methyl, 944, 2956
 C₂H₂N₂ Ethyl chlorosulfate, 2797, 5062
 C₂H₂N₂g Ethane sulfonic acid, chloro-, 2969,
 salt P 4012
 C₂H₂N₂ Ethyl mercaptan, Cu deriv., 2341
 C₂H₂N₂ See Ethane, amino-
 C₂H₂N₂g Ethylmagnesium iodide, 1492, 2658,
 3958, 3919
 C₂H₂N₂g Ethylmagnesium, 1752
 C₂H₂N₂ Potassium ethyl, 562
 C₂H₂N₂g Potassium ethyl, 562
 C₂H₂N₂g Ammonium magnesium carbonate,
 1179
 C₂H₂N₂ (See also Acetamide)
 Acetaldehyde oxime, 1206, 5149
 C₂H₂N₂ (See also Ethylamine Glycine)
 Carbamic acid methyl ester, 1010
 C₂H₂N₂ Ethyl nitrate, 2123, 3973
 C₂H₂N₂g Sulfamic acid acetyl, end *n*-ethyl,
 4520
 C₂H₂N₂g Ethane, 2059
 C₂H₂N₂ Acetamide, thio- 3962
 C₂H₂N₂g Semicarbazide 1-formylthio-, 495
 C₂H₂N₂g (See also Glycine)
 Glyoxime, oxime, 509
 C₂H₂N₂g Sodium ethyl, 562
 C₂H₂N₂g See Sodium ethoxide
 C₂H₂N₂g Roburium ethyl, 562
 C₂H₂N₂ See Ethane
 C₂H₂N₂g Ethane, 4199
 C₂H₂N₂g Ethane sulfonamide, 1-chloro-,
 2909
 C₂H₂N₂g Ethane, 4199
 C₂H₂N₂g Ethane, 3923
 C₂H₂N₂g Methyl selenomercaptan, 11g deriv.,
 2657
 C₂H₂N₂g Glyoxime, P 4012, 4359
 C₂H₂N₂g Hydrazylamine, *n*-*n*-dimethyl *n*-
 amino-, 5409
 C₂H₂N₂g Ethanol, 2-amino- nitrate salt
 with H₂O, P 2737, P 2740, P 3362
 C₂H₂N₂g P 2333
 C₂H₂N₂g 2069
 C₂H₂N₂g Urea (cyan), 261 chlorate and
 perchlorate, 3964
 C₂H₂N₂g Barbituric acid, 315, 701
 C₂H₂N₂g See Ethyl alcohol Methyl ester
 C₂H₂N₂g Ethanol 2 mercapto-, 918
 C₂H₂N₂g See Glycol
 C₂H₂N₂g Peroxide hydrazymethyl methyl, 911

- $C_2H_3O_3S$ Ethanesulfonic acid, 3393^a
 Methanesulfonic acid, Me ester, 1797^a
 Methyl sulfite, 1797^a, 4704^a
 $C_2H_3O_4$ Carbanol, dioxylys, 3905^a
 $C_2H_3O_4S$ See *Methyl sulfate*
 C_2H_3PbSe Methyl selenomercaptan Pb deriv., 2687^a
 C_2H_5S Ethyl mercaptan, 30^a, 75^a, 445^a, 56^a, 4^a
 Methyl sulfide, 4704^a, 5094^a
 $C_2H_5S_2$ Methyl disulfide, 5094^a
 C_2H_5Zn Zinc dimethyl, 31^a
 $C_2H_5AsO_3$ Cacodylic acid, As salt 1289^a salts 487^a
 $C_2H_5AsO_3$ Ethanesulfonic acid, and salts 4756^a
 $C_2H_5BF_3N$ Ethylammonium boron trifluoride 76^a
 C_2H_5N See *Dimethylamine* *Ethylamine*
 $C_2H_5NO_3$ See *Ammonium acetate*
 $C_2H_5N_3$ (See also *Guanidine methyl*)
 Trisene, 1,3-dimethyl 4174^a
 $C_2H_5N_4$ 3229^a
 $C_2H_5AsCl_4O_3S_2$ 3585^a
 C_2H_5BrN Ethylammonium bromide 2626^a
 $C_2H_5BrN_2Zn$ 3925^a
 $C_2H_5OICuN_2$ Copper dithiouracil chloride 3537^a
 $O_2H_2Cl_2K_2Zn$ 3925^a
 $C_2H_5CuN_2O_3$ Diamminocupric formate 662^a
 C_2H_5JN Ethylammonium iodide, 2626^a
 $C_2H_5JN_2Zn$ 3925^a
 $C_2H_5JNO_3$ Compd. from $Ni(CO)_4$ MeOH and NO, 913^a
 $C_2H_5N_3$ See *Ethylazide*
 $C_2H_5N_4$ See *Ammonium oxalate*
 $C_2H_5N_4O_4$ Tetraazoo 4 guanyl 2 (nitroazommonoguanidyl), 5770^a
 $C_2H_5N_4Ni$ 2069^a
 $C_2H_5ClN_4O_4Pt$ 3583^a
 $C_2H_5Cl_2MoN_4O_4$ 3587^a
 $C_2H_5FeN_4$ 2069^a
 $C_2H_5NiN_4$ 2069^a
 $C_2H_5CuN_4O_3$ Tetramminocupric formate 662^a
 $C_2H_5N_3$ See *Mercury cyanide*
 $C_2H_5N_4O_3$ See *Mercury fulminate*
 $C_2H_5N_4S_2$ See *Mercury thiocyanate*
 $C_2H_5N_4O_3$ Mercury oxycyanide, 2077^a
 $Cl_2N_4O_3$ Duododioxycyanide, 685^a
 Furotan, duodo-, 5894^a
 $C_2K_2MgO_3$ Magnesium potassium carbonate 3446^a
 $C_2K_2MnN_4O_3 + H_2O$ 889^a
 $C_2K_2MnO_3 + H_2O$ 889^a
 $C_2K_2O_3$ See *Potassium oxalate*
 C_2La Lanthanum carbide, 11^a
 C_2MgN_3 See *Magnesium cyanide*
 C_2MnO_3 Manganese oxalate, 5362^a, 5613^a
 C_2Si See *Cyanosil*
 C_2NiN_3 See *Nickel cyanide*
 C_2NiO_3 Oxycyanogen, 4194^a
 C_2NiPbS_2 See *Lead thiocyanate*
 C_2NiS_2 See *Thiocyanosil*
 C_2NiS_2Zn See *Zinc thiocyanate*
 C_2NiZn See *Zinc cyanide*
 C_2Na_3 See *Sodium acetylides*
 $C_2Na_3O_3$ See *Sodium oxalate*
 C_2Nd Neodymium carbide, 11^a
 $C_2O_4Pb + 2 H_2O$ Lead oxalate 5362^a
 C_2Pr Praseodymium carbide, 11^a
 C_2Sr Strontium carbide, 11^a
 C_2Th Thorium carbide, 11^a
 $C_2Br_2O_2$ 2-Propanone, hexabromo-, 2129^a
 $C_2Co_2O_3$ Cobalt cobaltcarboxate, 4761^a
 C_2Cr See *Chromium carbides*
 $C_2FeN_3S_2$ See *Iron thiocyanate*
 C_2FeO_3 See *Iron carbonyl*
 $C_2HBrClO_2$ Pyruvic acid, bromodichloro-, and Ag salt 4954^a
 C_2HBrO_3 Propionic acid, bromo-, 731^a, P 711^a
 $C_2HBr_2ClO_2$ Pyruvic acid, dibromochloro- and Ag salt 4954^a
 $C_2HBr_3O_2$ Acrylic acid, tribromo-, 731^a
 $C_2HBr_4O_2$ Pyruvic acid, tetrabromo-, 4954^a
 C_2HClO_3 Propionic acid chloro-, 72^a, P 711^a
 C_2HCl_3 Propane heptachloro-, 3893^a
 $C_2H_2BrClO_2$ Pyruvic acid, bromochloro-, 494^a
 $C_2H_2Br_2O_2$ Pyruvic acid, dibromo-, 494^a
 $C_2H_2Cl_2O_2$ Acrylic acid, β -dichloro-, 731^a
 Malonyl chloride 2140^a
 $C_2H_2Cl_3O_2$ Pyruvic acid, dichloro-, 494^a
 $C_2H_2Cl_4O_2$ Acrylamide trichloro-, 3993^a
 $C_2H_2E_2O_3 + 3/2 H_2O$ 4704^a
 $C_2H_2N_4$ Malononitrile, 3964^a
 $C_2H_2AlO_2$ Aluminum formate P 1042, 2609^a
 C_2H_2ClO Acrylyl chloride P 524^a, P 3014^a
 $C_2H_2Cl_2O_2$ Pyruvic acid chloro-, 494^a
 $C_2H_2Cl_3O_2$ Carbamic acid methyl trichloromethyl ester, 4223^a
 $C_2H_2XN_4Ni$ 2069^a
 $C_2H_2NO_3$ Acetic acid, cyano-, 7091^a, 4795^a
 $C_2H_2NO_4$ Furan 3 (azomethyl) (7), 1248^a
 C_2H_2 Allene 68^a, 5626^a, 5736^a
 Propene 68^a, P 5224^a, 5626^a
 C_2H_2BrClO Propionyl chloride, α -bromo-, 492^a
 $C_2H_2Br_2O$ Propionic acid α - β -dibromo-, 4770^a
 $C_2H_2Cl_3O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_4O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_5O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_6O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_7O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_8O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_9O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{10}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{11}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{12}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{13}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{14}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{15}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{16}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{17}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{18}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{19}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{20}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{21}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{22}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{23}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{24}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{25}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{26}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{27}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{28}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{29}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{30}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{31}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{32}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{33}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{34}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{35}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{36}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{37}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{38}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{39}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{40}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{41}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{42}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{43}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{44}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{45}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{46}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{47}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{48}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{49}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{50}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{51}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{52}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{53}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{54}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{55}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{56}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{57}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{58}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{59}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{60}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{61}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{62}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{63}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{64}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{65}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{66}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{67}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{68}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{69}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{70}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{71}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{72}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{73}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{74}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{75}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{76}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{77}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{78}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{79}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{80}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{81}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{82}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{83}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{84}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{85}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{86}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{87}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{88}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{89}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{90}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{91}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{92}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{93}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{94}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{95}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{96}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{97}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{98}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{99}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{100}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{101}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{102}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{103}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{104}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{105}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{106}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{107}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{108}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{109}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{110}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{111}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{112}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{113}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{114}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{115}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{116}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{117}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{118}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{119}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{120}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{121}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{122}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{123}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{124}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{125}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{126}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{127}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{128}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{129}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{130}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{131}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{132}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{133}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{134}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{135}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{136}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{137}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{138}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{139}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{140}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{141}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{142}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{143}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{144}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{145}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{146}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{147}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{148}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{149}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{150}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{151}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{152}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{153}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{154}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{155}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{156}O$ Propionyl chloride, α -trichloro-, 492^a
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 $C_2H_2Cl_{158}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{159}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{160}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{161}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{162}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{163}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{164}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{165}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{166}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{167}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{168}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{169}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{170}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{171}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{172}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{173}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{174}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{175}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{176}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{177}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{178}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{179}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{180}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{181}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{182}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{183}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{184}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{185}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{186}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{187}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{188}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{189}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{190}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{191}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{192}O$ Propionyl chloride, α -trichloro-, 492^a
 $C_2H_2Cl_{193}O$ Propionyl chloride, α -trichlor

- C₆O: Carbon suboxide, 654¹ 5929¹
 C₃: Carbon suboxide, 654¹
 C₇: See *Isopropyl carbide*
 C₄Al₂KN₄: Potassium cyanoguanate, 316
 C₄Br₂: Butadiene, dibromo-, 73¹
 C₄Br₁: 1,3 Butadiene 1,4-dibromo-1,2 1 4
 tetraendo-, 74¹
 C₄Br₁: 1 3 Butadiene 1 2 3 4 tetraendo-1 4
 diendo-, 74¹
 C₄Br₁: 1 3 Butadiene, hexabromo-, 74¹
 C₄Cl₂: Butadiene, dichloro-, 73¹
 C₄Cl₁: 1,3-Butadiene 1 4-dichloro-1 2 1 4
 tetraendo-, 74¹
 C₄Cl₁O: Maleyl chloride dichloro- 4223
 C₄Cu₂Fe₂KN₄: 2069¹
 C₄Fe₂N₄: Potassium euprocyanide 5623¹
 C₄Fe₂N₄: 2069¹
 C₄Fe₂O: See *Iron carbonyl*
 C₄Fe₂: See *Iron carbide*
 C₄H₄Cl₂N₂: Lymnadiene, 2 4 6 trichloro- 56¹ 61¹
 C₄H₄: Biacetylene 71¹
 C₄H₄Br₂Cl₂: 2 Butene 1 4-dibromo-1 2 3 4
 tetrachloro 3956¹
 C₄H₄Br₂: 2 Butene 1 1 2 3 4 4 hexabromo
 5814¹
 C₄H₄Cl₂: 1,3 Butadiene 1 2 3 4 tetrachloro
 3956¹
 C₄H₄Cl₂N₂O: 2 Butene 1 2 3 4 tetrachloro 1 4
 dimethyl (?) 3956¹
 C₄H₄Cl₂: 2 Butene 1 1 2 3 4 4 hexachloro
 3956¹
 C₄H₄Fe₂O: Iron carbonyl hydride 3041¹
 C₄H₄N₄O: See *Alloxan*
 C₄H₄N₄O: Urea 2,5 dinitro- 931¹
 C₄H₄N₄O: Compd m 104¹ from compd
 formed by the reaction of H₂N₂O₄ with
 C₄N₄ 1247¹
 3 Furazansitrile 4 nitromethyl (?) 1247¹
 C₄H₄N₄O: 3 4 Furazansitrile carbonyl acid (?)
 1247¹
 C₄H₄O: See *Maleic anhydride*
 C₄H₄Ag₂N₂O: Urea, α formyl β glyoxyl Ag
 derit 1330¹
 C₄H₄Al₂Br₂O₂ + H₂O 5862¹
 C₄H₄Al₂N₄O₂ + H₂O 5862¹
 C₄H₄Br₂N₂O: Urea 5-bromo 1830¹
 C₄H₄Br₂O: Furan bromo-, 1245¹
 C₄H₄Br₂O: Fumaric acid bromo-, 4222¹
 Maleic acid bromo-, 4222¹
 C₄H₄Cl₂O: Furan, chloro-, 1245¹
 C₄H₄Cl₂S: Ethyl sulfide heptachloro deriv
 2969¹
 C₄H₄N₂O: Furan 2 nitro- 901¹, 1825¹ 4263¹
 C₄H₄N₂O: Butyronitrile, α β diketo diosm
 peroxide, 3622¹
 C₄H₄N₂O: Urea, 5-nitro- 1830¹
 C₄H₄AsCl₂: Arsenic chlorobis(β chlorovinyl)
 3310¹
 C₄H₄Br₂O: Succinic acid α β-dibromo salts
 3349¹
 C₄H₄CaO: See *Calcium fastuif*
 C₄H₄CINO₂: Succinimide, N-chloro- 2699¹
 C₄H₄Cl₂O₂: Acetic acid chloroacetyl anhydride
 sulfide, 914¹
 C₄H₄Cl₂: Butane 1,1 2,3 4 4 hexachloro-
 3956¹
 C₄H₄N₂O: Succinimide, 1040¹ 1133¹
 C₄H₄KO₂ Sb: See *Tarsof medis*
 C₄H₄N₂: Pyrazine 907¹
 Succinonitrile, 4793¹
 C₄H₄N₂O: Imidazolealdehyde, 1901¹
 C₄H₄N₂O: (See also *Urea*)
 Butyronitrile, α β diketo-, α-oxime, 3621¹
- C₄H₄N₂O₂: See *Barbituric acid*
 C₄H₄N₂O₂: Diacetic acid 3612¹
 Urea, α formyl β glyoxyl 1830¹
 C₄H₄N₂: Thiocyanic acid, ethylene ester, P
 1258¹
 C₄H₄O: See *Furan*
 C₄H₄O: Isocrotonic acid γ hydroxy lactone
 4840¹
 C₄H₄O₂: See *Succinic anhydride*
 C₄H₄O₂: (See also *Fumaric acid* *Maleic acid*)
 Oxalic acid, ethylene ester, 920 5144¹
 C₄H₄O₂: Oxalacetic acid 4898¹
 C₄H₄O₂: Maleic acid dihydroxy 5144¹
 C₄H₄O₂: Maleic acid sulfo-, 4223¹
 C₄H₄S: See *Thiophene*
 C₄H₄Cl₂: Butane 1-chloro 1815¹
 C₄H₄Cl₂O₂: Sulfonide β chlorovinyl vinyl 5661¹
 C₄H₄Cl₂O: Crotonic acid, β-chloro- 4221¹
 Isocrotonic acid β-chloro 4221¹
 C₄H₄Cl₂O: Cyanoacetic acid chloro Et ester
 3625¹
 C₄H₄Cl₂O: Succinic acid chloro 5072¹
 C₄H₄Cl₂S: Sulfide β chlorovinyl vinyl 5661¹
 C₄H₄Cl₂O: Acetic acid trichloro Et ester,
 compd with BF₃, 5891¹
 C₄H₄Cl₂O: Carbamic acid ethyl trichloromethyl
 ester 4228¹
 1 3 Doxolan 2 of 2 (trichloromethyl),
 1484¹
 C₄H₄Cl₂S: Sulfide β chlorovinyl α β dichloro
 ethyl, 5663¹
 C₄H₄N₂: (See also *Pyrazole*)
 β Butenonitrile 2412
 Crotononitrile 2624¹ 3663
 Cyclopropanonitrile, 4234¹
 Isocrotononitrile 2624¹ 5663¹
 Methacrylonitrile P 5177¹
 C₄H₄NO: Succinimide 2134¹ 2524¹ 5210¹
 C₄H₄N₂S: See *allyl ester under Isocrotonic
 acid*
 C₄H₄N₂NaO: Acetamide α cyano-γ methyl
 Na deriv, 3632¹
 C₄H₄N₂O: See *Cyanoacetic acid*
 C₄H₄N₂O: Butyronitrile α β-diketo diosm,
 3621¹
 Formylhydroxamamide N acetyl α-cyano-,
 31¹
 Furan 3 acetyl 4-amino-, 3622¹
 C₄H₄N₂O: Compd m 185-90¹ (decomps)
 from compd formed by the reaction of
 HNO₃ with C₄H₄ 1248¹
 C₄H₄: (See also *Butadiene*)
 Butene 911¹, 5626
 C₄H₄Br₂N₂O: Glycine N bromoacetyl 2693¹
 C₄H₄Br₂N₂O: Butene 2 3-dibromo-, 911¹
 C₄H₄Br₂N₂O: Oxamide γ γ-dibromo-Δ Δ'
 dimethyl 687¹
 C₄H₄Br₂: Butane, tetrabromo- 911¹ 1133¹
 C₄H₄Br₂O: Ether bis(α β-dibromoethyl) 4846¹
 C₄H₄Br₂O₂: Sulfonide bis(α β-dibromoethyl)
 5663¹
 C₄H₄Br₂O₂: Sulfone, bis(α β-dibromoethyl),
 5663¹
 C₄H₄CIN: Butyronitrile chloro- 5663¹
 C₄H₄Cl₂N₂O: Allophanic acid γ,γ-dichloro-,
 Et ester, 685¹
 C₄H₄Cl₂O₂: Sulfonide, β-chloroethyl chloro
 vinyl, 911¹
 C₄H₄Cl₂O: Acetic acid, dichloro-, Et ester,
 2112¹
 β-Doxane 2 3-dichloro-, 4849¹
 C₄H₄Cl₂O₂: Sulfone, β chloroethyl chlorovinyl,
 911¹

- C₄H₉N₃ See *Thiosinamine*
C₄H₉N₃O₂ 1,2,3-Butanetriolone, 1-amino- tri-
amine 3612²
C₄H₉N₃O₂ Allantoinic acid, 934¹
C₄H₉N₃NiO₂ Glyoxime amino-, Na deriv
60²
C₄H₉N₃O₂ Urea, α-m-methylam-
dioxime, 261²
C₄H₉O (See also 2-Butanone *Butyraldehyde*
Isobutyraldehyde)
Butanol 4813¹ 5140
Ether ethyl vinyl 4627¹
Ethylene oxide α-m-dimethyl 5143²
C₄H₉OSe 1,4-Selenoxane 2113²
C₄H₉OTe Tellurophene tetrahydro-, 1 oxide
1021¹
C₄H₉O₂ (See also Aldol *Butyric acid* *Dioxane*
1-thyl acetate *Isobutyric acid*)
2-Butanone 3-hydroxy 1377¹ I 1963²
5188
ethylene oxide, α-methoxy-α-methyl 3963
Formic acid, Et ester 4434²
Propionic acid, Me ester 2640¹
C₄H₉O₃ Thiophene 2,3-dihydro-3-methyl
S-dioxide 270²
C₄H₉O₃ p-Dithiane 1-dioxide 5662²
C₄H₉O₄ (See also *Butyric acid* *Hydroxy*)
Glycol monoacetate 1441 P 3013²
Glycolic acid, Et ester P 2153²
Hydracryldehyde α-methoxy 1223²
Isobutyric acid 2971²
1-Propanone 1-hydroxy 1-methoxy
5664¹
Propionic acid α-methoxy 1614²
C₄H₉O₄ 1,3-Dioxolane 1-oxolane 2-hydroxy
4523¹
Erythrose 1920²
Isobutyric acid β-β-dihydroxy 4474²
C₄H₉S Thiophene tetrahydro 1021
C₄H₉Te 2-Butanone telluro- 3619
Tellurophene tetrahydro 1071¹
C₄H₉Br See *Butane brom-*
C₄H₉BrMg *Butylmagnesium bromide* 2155
ter Butylmagnesium bromide 2658
C₄H₉Cl (See also *Butane chloro-*)
Isopane 2-chloro 2-methyl 944 Q1
2891¹ 5322²
C₄H₉ClMg *ter Butylmagnesium chloride* 2654²
C₄H₉ClO *ter Butyl hypochlorite* 5174²
Ether β-chloroisopropyl methyl 2416
C₄H₉ClOS 1-Butanesulfanyl chloride 1812
C₄H₉ClO₂ 1-Propanol 3-chloro 2-methoxy
1454¹
C₄H₉ClCu₂N₂O₂ 2606¹
C₄H₉CS *Butyl mercaptan*, Cu deriv 2381²
ter Butyl mercaptan Cu deriv 2381
C₄H₉I (See also *Butane iodo-*)
Propane iodomethyl 2921¹ 5372²
C₄H₉IMg *Butylmagnesium iodide* 2658¹ 3359²
C₄H₉Li Lithium butyl 1829¹ P 2154²
C₄H₉N Butylamine 3962¹
Pyrridine, 951¹, 1826¹, 2997²
C₄H₉NO Acetamide, N-γ-dimethyl 2972²
2-Butanone, oxime 1308¹ 5140²
Butyramide, 2972²
Isobutyraldehyde, oxime 5140²
C₄H₉NOS *ter Butylthionitrate* 3618¹
Imidoacetic acid, thiol OEtSMe ester
3962¹
C₄H₉NO₂ Butyric acid, amino-, 4278² 4527²,
4619
Carbamic acid methyl-, Et ester, 1910²
3070²
Isobutyramide, α-hydroxy-, 5603²
Isobutyric acid, α-amino 2117², 4527²
Cu salt 263²
C₄H₉NO₂ Butyric acid, α-amino-β-γ-dihydroxy,
4278²
C₄H₉NO₂S Isobutyronitrile acid α-hydroxy
monomethide with 11 SO₂ Na salt
5603²
C₄H₉NO₂Se 1,4-Selenoxane hydroxymethyl
114
C₄H₉NS Acetaminic acid thiol Et ester 3962
C₄H₉NO Acetone semicarbazone 4263
C₄H₉N₂O (See also *Ceratin*)
Alacetrine 27²
Diglycinamide 420¹
C₄H₉ See *Butane Propane methyl*
C₄H₉AuBr Diethylgold bromide 420²
C₄H₉AgCl Diethylgold chloride 470²
C₄H₉AuI Diethylgold iodide 1,174²
C₄H₉BrN Butylamine 19 mi HBr 5102²
C₄H₉BrNOZn + 2114¹ 465²
C₄H₉BrSn Stannane 11-romomethyl 3976
C₄H₉ClNOZn + 2114¹ 765²
C₄H₉ClSn Stannane 11-bisiodomethyl 3976,
4863²
C₄H₉CuMNa₂O₂ Buret Na Cu deriv 10¹
C₄H₉Hg Mercury diethyl 3975²
C₄H₉Mg Magnesium diethyl 3979²
C₄H₉N₂O Hydroxylamine α-β-ethyl β
nitroso 5406¹
C₄H₉N₃ Irea trimethylthio P 450²
C₄H₉N₃ Compd from EtNH₂ and S-Cl₂
1801
C₄H₉N₃ 1,4,5,6-Tetrahydrazine 3,6-
diethyl 4849 4854
C₄H₉N₂O₂P See *Ceraphosphate acid Phos-*
phagen
C₄H₉NaO₂P Sodium triethyl phosphate 3618¹
C₄H₉O See also *Butyl alcohol Lithyl ether*
1-butylate 1,1
1-ether isopropyl methyl 1710¹
C₄H₉O See also *But-4-ene-1-ol*
1-thyl peroxide 41
Propanol 1-methoxy 2110
C₄H₉O Diethyl ether 1,1,1,1
1-oxide ethyl α-hydroxyethyl 311¹
Iropanediol methoxy 916 5623²
C₄H₉O₃ Butanesulfonic acid 1412 5593¹ +
1-thanol 2-ethylsulfonol 1813
Ethyl sulfite 173 4791²
C₄H₉O₃S Lithyl trisulfate 69¹
C₄H₉O₃Si Ethyl silicate P 161
C₄H₉O₄ See *Erythrol*
C₄H₉O₄ See *Ethyl sulfite*
C₄H₉O₄S Lithyl disulfate 69¹
C₄H₉O₄S₂ Ethyl trisulfate 69¹
C₄H₉S₂ See also *Ethyl sulfide*
Butyl mercaptan 3975 5616²
ter Butyl mercaptan 73
ter Butyl mercaptan 3618¹
Isobutyl mercaptan 304 1663²
C₄H₉S₂ Ethyl disulfide 5094¹
C₄H₉TeZn Zinc diethyl 321 382²
C₄H₉AsO₂ 1-Butanesulfonic acid, 4750²
C₄H₉IOS β-Hydroxyethyl dimethylsulfonium
sulfide 1813¹
C₄H₉N (See also *Butylamine Diethylamine*)
Lithylamine, N,N-dimethyl- *chloroacetic*,
5150²
Isobutylamine HCl 2626²
Propylamine γ-methyl, HCl, 4523²
C₄H₉NO₂ Ethanol 2,2-dimethoxy- 5718¹
C₄H₉O₂P Butanophosphonic acid, 2114¹

- C₅H₇ClNO₂** 3 Pyridinesulfonic acid, 6-chloro- 4268¹
C₅H₇ClN₂ 2 Pyridinemercaptan, 5-chloro 4267¹
C₅H₇Cl₂N Pyridine, 3-iodo-, dichloride 3344¹
C₅H₇Cl₂N₂ Pyrimidine, 2 4-dichloro 4-methyl, 5400¹
C₅H₇CoN₂O₂S₂ 5637²
C₅H₇FN Pyridine 3 fluoro and HCl 3344¹
C₅H₇FaNa₂O₂ 563¹
C₅H₇Fa₂N₂O₂ 563¹
C₅H₇IN Pyridine, 3-iodo-, P 513² 3344¹
C₅H₇INO 2 Pyridol, iodo- P 523² P 2157² 2420¹
C₅H₇INS 2-Pyridinemercaptan, 5-iodo- 4267¹
C₅H₇IN₂O₂ Pyridine 2 nitro- 390a¹
C₅H₇N₂O₂S 2 Pyridinemercaptan 5 nitro 4267¹
 4 Pyrimidinaldehyde 1 2 3 6 tetrahydro-6-keto-2-thioke- 3000¹
C₅H₇N₂O₂ Pyridol nitro- P 116² P 5178¹
 4 Pyrimidinaldehyde 1 2 3 6 tetrahydro-2 6-diketone, 3000¹
C₅H₇N₂O₂S Orotic acid, 2-thio- and salts 3316¹
C₅H₇N₂O₂ Orotic acid 3000¹
C₅H₇N₂O See Hypoxanthine
C₅H₇N₂O₂ See Xanthine
C₅H₇N₂O₂ See Uric acid
C₅H₇O₂ 1 4 Thiopyrone and dimer 632¹
C₅H₇O₂ (See also 2-Furaldehyde)
 1,4 Pyrone 815¹ 2352¹
C₅H₇O₂ Citraconic anhydride 2110¹
 Itaconic anhydride 2417¹
 Pyromucic acid 951¹ 1245¹ triethyl lead salt 2435¹
C₅H₇O₂S 1 4 Thiopyrone 5 dioxide 952¹
C₅H₇AsClNO₂ 3 Pyridinesulfonic acid 6-chloro-6-hydroxy P 4559¹
C₅H₇AsINO₂ 3 Pyridinesulfonic acid 2 hydroxy 5-iodo- P 4559¹
C₅H₇As₂NO₂ 3-Pyridinesulfonic acid 6-hydroxy 5-nitro-, P 524¹
C₅H₇Br₂NO₂ Barbituric acid 5-bromo 5-methyl 5400¹
C₅H₇Br₂NO₂S 3-Pyridinesulfonic acid 5-amino 5-bromo 4266¹
C₅H₇ClN₂ Pyridine 2-amino-4-chloro and H₂, 2429¹
C₅H₇ClN₂O₂S 3 Pyridinesulfonamide 6-chloro 4268¹
C₅H₇ClN₂O₂ 3-Hydantoinacetyl chloride 4225¹
C₅H₇Cl₂N₂Sb 5135¹
C₅H₇IN Pyridine 2-amino-iodo P 1263¹ P 2245¹ 2429¹ P 4607¹
C₅H₇N See Pyridine
C₅H₇NO Pyridol, P 116² 296¹ 3999¹
 Pyridone 295¹
 2-Pyridinaldehyde 2907¹
C₅H₇NO 2 Furaldehyde oxime, 1506¹ 5163¹
 2-Pyridinecarboxylic acid 3995¹
C₅H₇NO Furan, methylsulfo- 950¹, 951¹
 3 Isocyanatoethylsulfonyl acid 5-methyl, 4549¹
C₅H₇NO₂ 1-Sulfolpyridinium hydroxide cyclic anhydride, P 963¹, P 2156¹, 4482¹
C₅H₇NO₂ 2-Furanecarboxyl (6?) nitro- 2997¹
C₅H₇NS 2 Pyridinemercaptan, 4267¹
C₅H₇N₂NaO₂ Barbituric acid, 5-methyl Na derivs 5390¹
C₅H₇N₂O₂S 3 Pyridinesulfonic acid, 6-amino-5-nitro-, 4268¹
C₅H₇N₂ See Adams
C₅H₇N₂O See Guanine
C₅H₇ Cyclopentadiene, 72¹
 2-Penten-4-ine (?) 3309¹
C₅H₇AsNO₂ 3 Pyridinesulfonic acid, dihydroketo- 2192¹ and Na salt, 4268¹
 3 Pyridinesulfonic acid, 5-hydroxy, P 3664¹, P 4912¹
C₅H₇Br₂NS Thiazole 5-beomo-2 4 dimethyl, 4831¹
C₅H₇Br₂NS Pyrimidine 2-amino-5-beomo-4-methyl 1254¹
C₅H₇Br₂O₂S 1 4 Thiopyrone, 3 5-dibromotetrahydro-, 5 dioxide, 952¹
C₅H₇Br₂NO₂ Monopyridine tetrabromotungstate 2063¹
C₅H₇ClNO₂ Acetic acid chlorocyanate Et ester, 2119¹
C₅H₇Cl₂NSb 117¹ 5106¹
C₅H₇IN₂NaO Acetic acid cyano- Et ester, Na deriv 82¹
C₅H₇NO₂Sb 3 Pyridinecarboxylic acid 5-hydroxy, P 8175¹
C₅H₇NS Pyridine amino P 974¹ 3344¹ 3998¹ 3999¹ P 4807¹
C₅H₇N₂O 2 Pyridinaldehyde oxime 3995¹
C₅H₇N₂O Thymine 1830¹ 2922¹
 Uracil 6-methyl 1830¹ 2922¹
C₅H₇N₂O 3 Hydantoin 1 acetyl 2-thio- 1508¹
C₅H₇N₂O Barbituric acid 5-methyl 5390¹
 Glyoxylic acid cyano Et ester oxime 2383¹
C₅H₇N₂O Dextronic acid 5-methyl (?) 5390¹
 3-Hydantoinacetic acid 3315¹ 5395¹
 Urea α-acetyl β-glyoxyl 1830¹
C₅H₇N₂S 3 Pyridinemercaptan 5-amino- 4267¹
C₅H₇O Furan 2-methyl 1245¹ P 6179¹
C₅H₇O₂ 2-Furanmethyl mercaptan 4263¹
C₅H₇O₂ (See also 2-Furanthiol)
 α γ Pentadecenoic acid 3972¹ 4548¹
C₅H₇O₂ Citraconic acid 250¹ 459¹, 2110¹ 3315¹
 Itaconic acid 2417¹ 2939¹ 3315¹ 5664¹
 Mesaconic acid 250¹ 2119¹ 2939¹ 3315¹ 3626¹
 Propionic acid β-glyoxyl 2745¹ 3369¹ 4803¹
C₅H₇O Glutamic acid keto- 497¹, 3369¹ 4552¹
C₅H₇AgN₂S 2:1 Triaminomercaptan 4-amino-6-ethyl Ag deriv 705¹
C₅H₇As₂NO₂ 3 Pyridinesulfonic acid, 5-amino-hydroxy P 3361¹
C₅H₇Br₂O 3-Buten-2-ol 4-bromo-2-methyl 73¹
C₅H₇Br₂O α-Pentenol acid γ-beomo-5-hydroxy 4846¹
C₅H₇ClO₂ α-Pentenol acid γ-chloro 3-hydroxy 4846¹
C₅H₇Cl₂NO Alanil chloride N-chloroacetyl 2741¹
C₅H₇Cl₂O Carbolic acid propyl trichloromethyl ester 4225¹
 1 3 Dioxolane 2-methoxy-2 (trichloromethyl) 1454¹
C₅H₇HN₂O Acetic acid cyano(hydroxymethyl) Et ester, 3619¹
C₅H₇N Acrylonitrile, α-ethyl 2116¹ 2364¹
 Acrylonitrile 2116¹ 2364¹
 Tiglonitrile 2116¹ 2364¹
C₅H₇NO 2-Furanmethylaniline, 5163¹
 Pyromucosulfinic tetrahydro- 5163¹
C₅H₇NO Acetic acid cyano, Et ester, 2119¹, 3964¹, 4170¹, 4536¹, 5063¹
C₅H₇NO Pyroglutamic acid, 2203¹

- C₄H₉NO, Glycine Δ α -carboxyethylacetate
 Δ Δ salt 5130^o
- C₄H₉N₃ Pyridine 2,6-diamino- P 974^o
 Pyridine 3-hydrazino- 3344^o
 Pyrimidine 3-amino-4-methyl 1253^o
- C₄H₉NO 1,3,4-Oxadiazole 2-acetamido-5-methyl 498^o
- C₄H₉NO₃ 1,3,4,6-Thiodiazin-5-ol 2-amino-Ac deriv 3002^o
- C₄H₉NO₃ 3-Hydantoinacetamide 4225^o
- C₄H₉ See also *Isoprene*)
 1,4-pentadiene 487^o 2654^o
- C₄H₉BrClO Isovaleryl chloride β bromo-
 "S
- C₄H₉BrNO₂ Alanine Δ bromoacetyl 2693^o
- C₄H₉BrO Valeric acid α 2-d-bromo- 145^o
- C₄H₉BrO₃ Thiophene 3,4-dichlorotetrahydro-
 3-methyl γ -dioxide 277^o
- C₄H₉BrO Valeric acid α γ -dichloro- β 4-
 dihydroxy 2) 484^o
- C₄H₉Br Propene 1 γ -dichloro- γ 2 bis bromo-
 methyl 4808^o
- C₄H₉BrN₃ Thiazole 4-dimethyl, hydro-
 pentabromide 4681^o
- C₄H₉ClN Butyronitrile α chloromethyl
 2116^o
 Butyronitrile β chloro- α methyl 2116^o
- C₄H₉ClNO Alanine Δ -chloroacetyl 500^o
- C₄H₉ClHgNO Malonamide α α -bis(chloro-
 mercury) Δ Δ dimethyl 1219^o
- C₄H₉ClNO₂ Isera α acetyl β 18 β -d-chloro-
 acetyl 5411^o
- C₄H₉ClO Valeric acid α γ -dichloro β 4-di-
 hydroxy 444^o
- C₄H₉HgNO Acetamide α cyano- γ ethyl α -
 hydroxy mercury 3819^o
- C₄H₉I Isopane 1,3-diiodo-2,2-bis iodo-
 methyl 4853^o
- C₄H₉N Pyrrole 2 (am nomethyl) 3993^o,
 1996^o
- C₄H₉N₂O Oxaluric acid Δ Δ -dimethyl
 1630^o
- C₄H₉N₂O₂ Glycine Δ Δ -carboxylate 3313^o
 4853 5326^o
- C₄H₉N₂O₃ 4-Isoindolecarboxamide 4-amino-
 tetrahydro 2,5-d-keto 1-methyl 386^o
- C₄H₉N₂O₃ Isonitrylthyl tetrahydrate 1674^o
 2981 5034 5091^o
- C₄H₉N₃ 2-Triazeneoctapent 4-amino-4-
 ethyl "O₂"
- C₄H₉N₃O Purazan γ acetyl 4-amino- sem-
 carbazine 78 78^o
- C₄H₉O Acrolein α -ethyl 2 7414^o
 Cyclopentanone 3316^o
 α 1-pentenaldehyde 5140^o
 Senecioaldehyde 2410^o
- C₄H₉O₂ Acetic acid allyl ester 4392^o
 Angelic acid 2342^o
 Crotonic acid, Me ester 1793^o
 4-pentenoic acid, 82 183, 3642^o 3964^o
 5411^o
 α 1-pentenoic acid 1772^o 5140^o
 Thioic acid 2342^o
- C₄H₉O₃ 77 O₂ benzene, dihydromethyl Δ di-
 on le 2469^o
- C₄H₉O₄ See also *Lactic acid*)
 (glyco-cacetyl allyl ester P 2153^o
 lyeol 5147^o
 Xitol 5147^o
- C₄H₉O₅ 3-Thiophenone 4,3-d-hydro 4-methyl
 γ -dioxide 277^o
 1,4-Thiopyrone tetrahydro- C₄H₉O₅ 925^o
- C₄H₉O₆ (See also *Glutaric acid*)
 Lactic acid, acetate, 492^o
 Malonic acid, di Me ester, 5663^o α
 —, dimethyl, 5664^o salts, 5823^o
 — ethyl, 4964, 3230^o, 5664^o salts, 5823^o
- C₄H₉O₃ Acetic acid, (propenylsulfonyl), Δ Δ
 Δ salt, 1487^o
- C₄H₉O₄ Acetic acid, α α' (methyleneidithio)
 bis, 4393^o
- C₄H₉O₄ Glutaric acid, α hydroxy, 2743^o, 3263^o,
 4893^o
 Lyxonolactone, 2794^o
 Oxalic acid, β hydroxyethyl Me ester, 9201,
 5144^o
- C₄H₉Se 2-m-Dithianone, 5-methylthio-, 2690^o
- C₄H₉Br Pentene, bromo-, P 1037^o, 1795^o
 4847^o
- C₄H₉BrO Furan, 2 (bromomethyl)tetrahydro-,
 4826^o
- C₄H₉BrO₂ Isovaleric acid, α bromo-, 2116^o
- C₄H₉BrO₃ 3-Thiophenol, 4-bromotetrahydro-
 3-methyl γ -dioxide 277^o
- C₄H₉Br Pentene 1,2,3-tribromo-, 4526^o
- C₄H₉Cl Pentene chloro-, P 1037^o, 4545^o
- C₄H₉ClNO Carbamic acid β β -dichloroethyl,
 ethyl ester 5213^o
- C₄H₉I 2-Pentene 4-iodo- P 1037^o
- C₄H₉Br Propane 1,3-diiodo-2 (iodomethyl) 2
 methyl 1487^o
- C₄H₉N Isovaleronitrile 912^o, 4795^o, 5393^o
 Valeronitrile 912^o, 5323^o
- C₄H₉NO Acrylamide, α -ethyl, 2116^o, 2342^o,
 2364^o
 Acrylamide 2116^o 2342^o, 2364^o
 4-Piperidone HCl 4763^o
 2-Pyrrolidone, 1-methyl, 102^o
 Triamide 2116^o, 2342^o, 2364^o
- C₄H₉NO₂ (See also *Proline*)
 2-Furaldehyde tetrahydro-, oxime, 5163^o
 2-Pentenoic acid, α amino-, 1493^o
- C₄H₉NO₂ (See also *Proline*, *hydroxy-*)
 Oxamic acid, isopropyl and Pr esters, 5592^o
- C₄H₉NO₃ (See also *Glutamic acid*)
 Aspartic acid, methyl 4527^o
- C₄H₉NE Isothiocyanic acid, isobutyl ester
 4793^o
- C₄H₉N₂ (See also *Hydrazine*)
 Pyrazole 4-amino-3,5-dimethyl, 1523^o
- C₄H₉N₂O₃ 1,3,4,6-Thiodiazin-5-ol, 2-ethyl
 amino- 3002^o
- C₄H₉ (See also *Bulene methyl Pealene*)
 Cyclopentane 2855^o 5096^o
- C₄H₉AsBr Arsenous 1-bromo-, 3000^o
- C₄H₉AsBr Arsenous, 1-bromo-, dibromide,
 3000^o
- C₄H₉AsN Oethylgold cyanide, 4220^o
- C₄H₉BrNO Propionamide, α -bromo- Δ , γ -di-
 methyl 492^o
- C₄H₉Br₂ Pentane, 1,5-di bromo-, 5601^o
- C₄H₉BrO Ether, α β -dichloropropyl ethyl,
 2654^o
 1-Pentanol 4,5-dichloro- 4526^o
- C₄H₉ClNO Propionamide α -chloro- γ , γ -di-
 methyl 492^o
- C₄H₉Cl Pentane 1,5-dichloro-, 98 2937^o
- C₄H₉Cl₂O Nitrobenz 18 β -d-chloroisopropoxy-
 methoxy 2939^o
- C₄H₉ClNO Propionamide α -iodo-N, γ -di-
 methyl 492^o
- C₄H₉N₂O₂ Malonamide, γ -ethyl 497^o
 2,4-Pentanedione dioxime 4222^o
- C₄H₉N₂O₂ Glycine Δ alanyl, 124^o, 262^o
 1072^o

- Levulic acid, *n*, *d*-diamino, di HCl 1247²
 C₅H₉N₂O₂ Isooctene, glycol, 5905²
 C₅H₉N₂S₂ Compd from C₁₆O and NH₄SH, 5140¹
 Penlamethylenediamine disulfide P 3137²
 C₅H₉N₂O Propionamide *N*, *N*-dimethyl-*m* tris, 492²
 C₅H₉N₂O Mesaconic acid, dihydrazide, 3628²
 C₅H₉N₂O₂ Barb lonic acid, 5-methyl, hydrazide 5400²
 C₅H₉N₂O₂ Δ^{1,4}, 5-Pyrazolinedicarboxylic acid dihydrazide, 1825²
 C₅H₉O 2 Butanone, 3 methyl 1802²
 Butyraldehyde, *n*-methyl, 71²
 Cyclopentanol, 4234²
 Ether, ethylisopropyl, P 302² 4627²
 Ethylene oxide, isopropyl, 2630²
 Isovaleraldehyde, 3316²
 Pentanone, 1802² 2132², 2620²
 Δ^{1,1} Pentenol, 4526² 4845²
 C₅H₉O₂ Xanthic acid, Et ester 1804²
 C₅H₉O₂ (See also Isoselenic acid *l* selenic acid)
 Acetic acid, isopropyl ester, P 3843² P 4254² Pr ester, 61² compd with BF₃ 5891²
 Carbon monoxide di Et acetal 3064²
 1,2 Cyclopentanediol, 1708²
 Ethylene oxide (ethoxymethyl) 2602²
 2 Furacarbopol (tetrahydro-, P 1844², P 2154²
 Propionic acid Et ester 1218², 1802², 2035² 2640² 5323² compd with BF₃ 5891²
 C₅H₉O₂ Acetic acid propylmercaptan- 3621²
 C₅H₉O₂ Butyric acid *β* methoxy, 3958²
 Carboxylic acid, di Et ester 2636², 3620², 5323²
 5-*m* Dioxanol 2 methyl 2692²
 1,3 Dioxolane-4-carboxyl 2 methyl 2692²
 Ethanol, 2 methoxy, compd with BF₃ 5891²
 Lactic acid Et ester 3675²
 Pensovaleric acid, 2971²
 2 Propanone 1 ethoxy-3 hydroxy 5654²
 C₅H₉O₂ Acetic acid *β* methoxyethoxy, 2417²
 Acetic, mono- 76², 1454² 1910² 3318² 5397²
 Erythrose, methyl 1220²
 C₅H₉O₂ 1 Butanesulfonic acid, 4 hydroxy 2 keto-2 methyl, 277²
 C₅H₉O₂ (See also Anahore Xylor)
 Arose, 820²
 Lyxose, 1220²
 Xyloketose, 4304²
 C₅H₉O₂ Apionic acid Cs salt, 920²
 Arabonone acid, 917² Cs salt, 4850²
 Lyxonic acid K salt 250²
 Xyloonic acid, 915² Cs salt, 4850²
 C₅H₉S Thiopyran, 1,4-dihydro- 1522²
 C₅H₉S Carbomine acid, trihydro- Bu ester, Na salt, 2120²
 C₅H₉Te 3-Pentanone, telluro-, 5619²
 C₅H₉Br (See also Penioar bromo)
 Butane, bromomethyl 3885², 5322² 5603²
 C₅H₉Cl Butane, chloromethyl 3885² 5603²
 Pentane, 1-chloro-, 2669², 5322², 5603²
 C₅H₉ClMg Isoamylmagnesium chloride, 487²
 C₅H₉ClMgO *γ* Ethoxypropylmagnesium chloride, 4221²
 C₅H₉ClO Ether, 4-chlorobutyl methyl, 4525²
 Ethox, *β* chloroisopropyl ethyl, 2416²
 —, *α*-chloropropyl ethyl, 2684²
 C₅H₉ClOS 1 Butanesulfonyl chloride, 3 methyl 1812²
 C₅H₉ClO₂ Propane chlorodimethoxy 2692²
 C₅H₉CO₂ Butyl mercaptan, *n*-methyl Cu deriv., 2381²
 C₅H₉I Butane iodomethyl 3685²
 C₅H₉IOS₂ 1,4 Selenoxane methiodide 2114²
 C₅H₉ITe Tetrahydrophene tetrahydro-, methiodide 1821²
 C₅H₉IS Trimethylsulfonium iodide, CH₃ compd 282²
 C₅H₉IM (See also Piperidaz)
 Pyrrolidic methyl 1941²
 C₅H₉NO 2 Iuranmethylamine tetrahydro 950² 5163²
 Pentanone oxime 1,006²
 Iropoamide *N*, *N*-dimethyl 2972²
 2 Ipyrolinecarbinol 3995²
 Valeramide 2972² 4774²
 C₅H₉NO₂ *tert* Amylthiomine 3618²
 C₅H₉NO₂ (See also Amyl nitrite *Brauer* *l* selenic)
 Butyramide *n* hydroxy *n*-methyl 2342² 3970²
 Isoamyl nitrite 4846²
 Norvaline 820² 1231², 4527²
 2 Pentanol nitrite 4846²
 C₅H₉NO₂ Butyric acid *n* amino-*γ* methyl mercapto- 4770² 5396²
 C₅H₉NO₂ Valine hydroxy 4766²
 C₅H₉NO₂ Butyramide acid *n* hydroxy-*n* methyl monomethylamine with H₂SO₄ Na salt 5605²
 C₅H₉NO₂ Propionic acid amido-, glycol-, amino- 3993²
 C₅H₉ (See also *Brauer* 2 methyl *Pentane*)
 Propane 2,2 dimethyl 2967²
 C₅H₉BrS₂ Ethyldimethylsulfonium iodide, C₁₁Br₂ compd 282²
 C₅H₉ClS₂ Sisonane dichloroethylpropyl, 4863²
 C₅H₉N₂ Pyrrolidone 2 (aminomethyl), 3995² 3996²
 C₅H₉N₂O 2,1 Dimethyl Δ² pyrazolone hydroxide 4237²
 C₅H₉N₂O Ornithine 4224²
 C₅H₉O (See also Amyl alcohol *Isomyl* *al* *cokol*)
 Ether *tert* butyl methyl, 1215²
 2 Pentanol P 1376²
 1 Propanol dimethyl 1797² 2606²
 C₅H₉O₂ 1 Butanol 4 methoxy 4524²
 Ethanol 2 propoxy 2417²
 Methane diethoxy 2038² P 2437², 5322²
 Pentamethol 1798² 1809²
 Propanol ethoxy 2416²
 C₅H₉O₂ 1,2 5-Pentanediol 4526²
 1,2 Propanediol 3 ethoxy 684² 916²
 Propanol dimethoxy, 915² 2692²
 2 Propanone 1 hydroxy di Me acetal 3963²
 C₅H₉OS₂ 1 Butanesulfonic acid, 3 methyl 1812²
 Butyl methyl sulfate, 5662²
 Ether *β* ethylsulfonyl ethyl methyl 1814²
 Pentanesulfonic acid 5393²
 C₅H₉O₂ See *Pentacetylthiol*
 C₅H₉ 3 Amyl mercaptan, 75²
tert Amyl mercaptan 2618²
 Butyl mercaptan, *n*-methyl, 75²
 Isoamyl mercaptan 30²
 C₅H₉Sn Stannane, trimethylvinyl 70²
 C₅H₉AgClNS (5 Mercaptoethyl)trimethylam

- C₆H₅ClN₂ Nicotinonitrile, 6-chloro- 4268²
 C₆H₅ClN₂O Benzene, chlorodinitro-, 687¹
 2214², 2698², 3664¹, 4533²
 C₆H₅ClN₂O₃ Phenolsulfonic acid chlorodinitro-, K salt, 93¹
 C₆H₅ClN₂O Picolinylamide 4-chloro- 2429²
 C₆H₅Cl₂F Benzene, dichlorodifluoro-, 923¹, 4860¹
 C₆H₅Cl₂FO Phenol, 2,6-dichloro-4-fluoro- 114²
 C₆H₅Cl₂I Benzene, dichloroiodo- 923¹, 4860¹
 C₆H₅Cl₂IO Phenol, 2,4-dichloro-6-iodo-, 1501²
 C₆H₅Cl₂NO Benzene dichloronitroso- 977²
 4560²
 Picolinyl chloride 4-chloro- 2429²
 C₆H₅Cl₂NO₂ Benzene, dichloronitro- 923¹
 2698², 4860¹, 5033¹
 Nicotinic acid 5,6-dichloro- 4268²
 C₆H₅Cl₃ See Benzene trichloro-
 C₆H₅Cl₃O See Phenol trichloro-
 C₆H₅Cl₃S Phenylmercaptan 2,3,4-trichloro-
 P 5040²
 C₆H₅Cl₃OS₂ 1,2,5-Oxadithians 2,4,6-tris(trichloromethyl) 3618²
 C₆H₅CoN₂ Hissacyanocobaltic acid 4483²
 C₆H₅F₂IO Phenol 4-fluoro-2,6-diiodo- 114²
 C₆H₅IN₂O Nicotinonitrile 2-hydroxy 3-iodo-
 4268²
 C₆H₅IN₂O Picolinylamide 4-iodo- 2429²
 C₆H₅I₂ See Benzene diiodo-
 C₆H₅N₂O₂ See Benzene dinitro-
 C₆H₅N₂O₃ See Picric acid
 C₆H₅N₂O₄ Resorcinol trinitro P 5 der
 4127²
 Styphnic acid 2893²
 C₆H₅N₂O₅ Phloroglucinol trinitro- 2693²
 C₆H₅N₂O₅ Aniline N 2,4,6-tetrinitro- 282²
 C₆H₅AsBrCl₂ Arsenic (m bromophenyl)ide
 chloro- 109¹
 C₆H₅AsClO₂S Benzenesulfonyl chloride o-ar
 suoso- 93¹
 C₆H₅AsClFO₂S Benzenesulfonyl fluoride m
 dichlorosulfonyl 284¹
 C₆H₅AsClFO₂S Benzenesulfonyl chloride m
 dichlorosulfonyl 284¹
 C₆H₅BrF₂N₂ p Bromobenzenediazonium boro-
 fluoride 4253²
 O₂H₅BrO Benzene, 1-bromo-4-bromo- 927²
 C₆H₅BrNO₂ Benzene borylnitro 1227²
 C₆H₅BrCl Benzene 1-bromo-4-chloro- 4861²
 C₆H₅BrCl₂ Benzene 1-bromo-4-(chloromer-
 euryl) 928¹
 C₆H₅BrClO Phenol, 5-bromo-2-chloro- 924²
 C₆H₅BrCl₂SO Stannane (p bromophenyl)tri-
 chloro- 2703¹
 C₆H₅BrF Benzene 1-bromo-4-fluoro-, 4253²
 C₆H₅BrIO Phenol 4-bromo-2-iodo- 3978²
 C₆H₅BrNO Benzene 1-bromo-4-nitroso-, 3321¹
 C₆H₅BrNO₂ See Benzene bromonitro-
 C₆H₅BrNO₂S Nicotinic acid 5-bromo-6-mer-
 capto- 4268²
 C₆H₅BrN₂ 1,2,3-Bisotrazole 5-bromo- 4268²
 C₆H₅BrN₂O₂ Aniline 4-bromo-2-dinitro- 283²
 C₆H₅BrN₂O₃ Phenol 3-aminobromodinitro-
 2128¹, 2129²
 C₆H₅Br₂ See Benzene, dibromo-
 C₆H₅Br₂N₂O₂ Aniline 2,6-dibromo-4-nitro-,
 4273¹
 C₆H₅Br₂N₂O₃ Phenol, 3-aminodibromonitro-
 2128¹, 2129²
 C₆H₅Br₂ISn Stannane, tribromo(p-iodophenyl)
 2703¹
 C₆H₅Br₂N Aniline 2,4,6-tribromo- P 573², P
 1584¹, 2698²
 C₆H₅ClF Benzene, 1-chloro-4-fluoro-, 4861²

- C₆H₅ClFO₂S Phenol, o(m and p)-chloro-, fluoro-
 sulfonate, 929¹
 Phenylsulfonyl fluoride chloro- 284¹
 C₆H₅Cl₂I Benzene 1-chloro-4-iodo-, diiodide
 3843²
 C₆H₅Cl₂IO Phenol 4-iodo- 924¹, 1504²
 C₆H₅Cl₂NO₂ (See also Benzene chloronitro-)
 Phenol 2-chloro-4-nitroso- 4539¹, 5669²
 Quinone 2-chloro-1-oxime 4539¹, 5669²
 C₆H₅Cl₂NO₂S Benzenesulfonyl chloride p nitro-
 1812²
 Nicotinic acid 5-chloro-6-mercapto- 4267²
 C₆H₅Cl₂NO₂ Phenol chloronitro 93¹, 114²
 2700², 5033¹
 C₆H₅Cl₂NO₂S Benzenesulfonyl chloride nitro-
 2702²
 C₆H₅Cl₂NO₂S 1 Phenol 4-nitrosulfonic acid chloro-2
 nitro-, K salt 93¹
 C₆H₅Cl₂N₂O₂ Nitrobenzenediazonium chloride
 4539¹, 4797², 5406¹
 C₆H₅Cl₂ See Benzene dichloro-
 C₆H₅Cl₂Hg Benzene 1-chloro-2-(chloromercuri)
 823¹
 C₆H₅Cl₂N₂ Chlorobenzenediazonium chloride
 4787²
 C₆H₅Cl₂N₂O₂ Aniline 2,6-dichloro-4-nitro-
 4273¹
 C₆H₅Cl₂O Phenol dichloro- 923¹, 2706²
 4537², 4860²
 C₆H₅Cl₂O₂S Benzenesulfonyl chloride dichloro-
 923¹, 4560¹
 C₆H₅Cl₂O₂S Benzenesulfonyl chloride dichlorodi-
 hydroxy Bz salt 691², 692¹
 C₆H₅Cl₂O₂S 1 Phenol 2,4-disulfonyl chloride
 P 1262²
 C₆H₅Cl₂O₂S 3-m Benzenediazylchloride 2,4-
 6-trihydroxy P 1262²
 C₆H₅Cl₂S Phenyl mercaptan 2,6-dichloro
 4860²
 C₆H₅Cl₂ISn Stannane trichloro p iodophenyl)
 2703¹
 C₆H₅Cl₂N Aniline 2,4,6-trichloro- 2698²
 2707²
 C₆H₅Cl₂NO₂S Benzenesulfonyl chloride 2-amino
 3,5,6-trichloro- P 4718²
 C₆H₅Cl₂N₂ (Iyflazone) 2,3,4,6-tetrachloro
 phenyl 5067¹
 C₆H₅Cl₂SO Stannane trichloro(p-chlorophenyl)
 2703¹
 C₆H₅Cl₂ISn Stannane trichloro(p-iodophenyl),
 dichloride 2703¹
 C₆H₅FO₂ Benzene fluoronitro- 2611²
 C₆H₅FO₂S Phenol p nitro fluoro-sulfonate,
 923¹
 C₆H₅F₂NO₂ Benzene iodonitro difluoride
 3643²
 C₆H₅F₂N₂ See Ferrocyanic acid
 C₆H₅INO₂S Nicotinic acid 2-iodo-6-mercapto-
 4268²
 C₆H₅I₂ See Benzene diiodo-
 C₆H₅IO₂ Benzene, o-diiodoxy 923¹
 C₆H₅N₂ Nicotinonitrile 3341²
 C₆H₅N₂O Nicotinonitrile, 6-hydroxy 4268²
 C₆H₅N₂O₂ Nicotinonitrile, 2,4-dihydroxy P
 2441²
 C₆H₅N₂O₂S p-Sulfobenzenediazonium hydrazide,
 cyclic anhydride, 4797²
 C₆H₅N₂O₃ See Benzene dinitro-
 C₆H₅N₂O₃ (See also Phenol, dinitro-)
 Nicotinic acid, 2-hydroxy 5-nitro 3651¹
 C₆H₅N₂O₃S Benzenesulfonyl chloride, 2,4-dinitro
 2702²
 C₆H₅N₂O₄ Benzenesulfonyl 6-nitro- 4268²

- C₆H₅ClNO₂** Acrylic acid, β chloro α -cyano-
 Et ester, 2119^a.
C₆H₅ClNO₂S Phenolsulfonic acid, amonochloro-,
 5034^a.
C₆H₅ClNS Phenyl mercaptan, 2 amino 4 chloro-
 931^a.
C₆H₅ClNO Picoline acid, 4-chloro- hydrazide
 2429^a.
C₆H₅Cl₂O Compd in 81^a, from the dichloride
 of dichloromaleic acid and AlMe₃I
 4225^a.
C₆H₅Cl₂ Cyclohexane, hexachloro-, 1153^a, 1493^a
 4159^a.
C₆H₅N Aniline, *p*-iodo- 1502^a, 2125^a.
C₆H₅NO Pyridine, 5-iodo-2 methoxy and
 HCl 953^a.
 2(1) Pyridone 5-iodo-1 methyl P 1636^a
 P 2523^a and HCl 953^a.
C₆H₅NO Picoline acid 4-iodo- hydrazide
 2429^a.
C₆H₅KNO₂S Sulfamic acid (phenylsulfonil)
 K deriv., K salt, 4526^a.
C₆H₅LiN 2 Picoline Li deriv 1529^a.
C₆H₅N₂ Quinoxalene, 502^a.
C₆H₅N₂O Benzenediazo hydrazide A deriv
 479^a.
 Nicotinamide 3664^a.
 Picolinamide, 3664^a.
C₆H₅N₂O₂ (See also Aniline nitro-)
 Glutaramide, α -cyano-, 3653^a.
 Imidazoleacrylic acid 1901^a.
 Nicotinic acid amino-, 4268^a and HCl
 3651^a.
O₂H₅N₂O Pyridine, 2 methoxy 5-nitro- 953^a.
 2(1) - Pyridone, 1 methyl 5 nitro- 943^a.
O₂H₅N₂O₂S Orotic acid, O methyl 2 thio 3317
 3129^a.
O₂H₅N₂O₂ Hydroquinone 2 amino 5 nitro-
 3129^a.
C₆H₅N₂O₂S Benzenediazonium acid sulfate
 1226^a.
O₂H₅N₂O₂S Sulfamic acid, 2 nitro- 2703^a.
C₆H₅N₂S Neotinamide thio- 3661^a.
 Picolinamide, thio-, 3664^a.
C₆H₅N₂S₂ Nicotinamide, 6-mercaptothio-, 4267^a.
O₂H₅N₂O₂ Heteroxanthine 1884^a.
 Xanthine, methyl, 1884^a.
C₆H₅N₂O₂ Uric acid methyl 2129^a, 4297^a.
C₆H₅N₂O₂ Hydrazine (2 4-dinitrophenyl),
 3319^a, 3076^a.
m Phenylendiamine, 2 4-dinitro-, 3343^a.
 Uric acid, (hydroxymethylene) 2129^a.
C₆H₅N₂O₂S Benzenesulfonic acid 2 4-dinitro-,
 hydrazide 2^a92^a.
C₆H₅O See Phenol.
C₆H₅O₂S Ketone methyl thienyl, 2719^a.
C₆H₅O₂ (See also Hydroquinone Pyrocatechol
 Resorcinol)
 2 Furaldehyde, 5-methyl 950^a.
C₆H₅O₂S Benzenesulfonic acid 501^a.
C₆H₅O₂S₂ Benzenesulfonic acid 3976^a.
C₆H₅O₂ (See also Phloroglucinol Pyrogallol)
 Benzenetriol 2934^a.
 2 - Furaldehyde, 5 (hydroxymethyl),
 2719^a.
 3 Furancarboxylic acid, 2 methyl 1245^a.
 Maltol, 1007^a.
 Pyrimidine acid, Me ester 3645^a, 5603^a.
 —, 5-methyl, 959^a.
C₆H₅O₂S See Benzenesulfonic acid.
C₆H₅O₂ Pyrimidine acid, 5 (hydroxymethyl)
 2457^a.
 1 4 Pyrone 5 hydroxy 2 (hydroxy
 methyl), 279^a, 1544^a, 2516^a.
- C₆H₅O₂S** 1 Phenyl 4 sulfonic acid 1504^a.
C₆H₅O₂ Acetic acid, 1874^a, 4915^a.
C₆H₅O₂ Phenyl mercaptan 30^a, 503^a.
C₆H₅AsINO₂ Arsanilic acid 1 6-iodo- 92^a.
C₆H₅AsNO₂ Arsanilic acid nitro- 283^a.
C₆H₅AsO₂ Benzenearsonic acid 2162^a.
C₆H₅AsO₂ Benzenearsonic acid *p* hydroxy,
 $\frac{1}{2}$ salt P 525^a P 2155^a.
C₆H₅AsO₂S Benzenearsonic acid sulfo and
 Na salt 92^a.
C₆H₅AsO₂S Benzenearsonic acid 4 hydroxy 3
 sulfo- 92^a.
C₆H₅AsO₂S Benzenearsonic acid 4 d hydroxy
 5 sulfo- 92^a.
C₆H₅BO₂ Boric acid phenyl 94^a, 1227^a.
C₆H₅BrNO₂ Ureacil 5 bromo-1 3 dimethyl
 1830^a.
C₆H₅BrNO₂ Barbituric acid 5 bromo 4 ethyl
 4609^a.
C₆H₅HgN₂O 3585^a.
C₆H₅N (See also Aniline)
 Picoline 913 4268^a 4270^a and salts
 3345^a.
C₆H₅NO (See also Phenol amino-)
 Hydroxylamine phenyl 403^a, 4244^a.
 Ketone methylpyrrol, 145^a, 2484^a, 3327^a.
 2 Picoline 3 of P 1539^a.
 Pyridone 4 methoxy 296^a.
 4(1) Pyridone 1 methyl 206^a.
 2 Pyrrolealdehyde 5 methyl 3006^a.
C₆H₅NO₂ Ketone 2 fursyl methyl name 2143^a.
 Phenol hydroxamine P 559^a.
 1 Pyrroleacetic acid 1521^a.
 Resorcinol 4 amino- P 2437^a.
C₆H₅NO₂S Addn compd of EtNH₂ and SO₂
 4482^a.
C₆H₅NO₂ Acrylic acid α -cyano- β hydroxy
 Et ester 2119^a.
C₆H₅NO₂S Benzenesulfonic acid, α -amino
 501^a.
 Metanilic acid and HCl 4797^a.
 Sulfamic acid phenyl 4182^a $\frac{1}{2}$ salt
 2703^a.
 Sulfamic acid 2703^a and HCl, 4797^a.
C₆H₅NO₂S Metanilic acid 4 mercapto- 1506^a.
C₆H₅NO₂S Sulfamic acid (phenylsulfonil),
 and $\frac{1}{2}$ salt, 4526^a.
C₆H₅N₂O₂ Hydrazide *p* nitrophenyl, 4^a97^a.
C₆H₅N₂O₂S Benzenesulfonic acid *p* nitro-,
 hydrazide, 2702^a.
C₆H₅CyC₆H₄Si₂ Cyclohexadiene, 4235^a.
 1 Penten 3 iac, 2 methyl 1614^a.
C₆H₅AsNO₂ *m*-Arsanilic acid, 4 hydroxy 283^a.
 3 Pyridinecarboxylic acid, 1,2 - dihydro 2
 keto-1 methyl 4265^a.
C₆H₅AsNO₂S Benzenearsonic acid, sulfamyl,
 93^a, 283^a.
C₆H₅AsNO₂S *m*-Arsanilic acid 6 sulfo- 92^a.
C₆H₅BN₂O₂ Boric acid (*m* aminophenyl) 1227^a.
C₆H₅BrNO₂ Aspartic acid, *N* bromoacetyl,
 2693^a.
C₆H₅CIN Pyrrole 1 (β -chloroethyl), 1521^a.
C₆H₅CIN₂O₂S Benzenesulfonic acid, 3,4 di
 amino 5-chloro- P 425^a.
C₆H₅Cl₂N₂Zn 392^a.
C₆H₅Cl₂O Furo[3,2 β]furan 3 6 dichloro-
 hexahydro, 4265^a.
C₆H₅Cl₂O Succinic acid α β -dichloro-, di Me
 ester, 1493^a, 5159^a.
C₆H₅HgN₂O₂ 3585^a.
C₆H₅NO₂Sb Benzenesulfonic acid, *p*-amino-,
 4537^a.

- C₆H₅N₂ (See also *Hydrazine phenyl Phenylene diamine*)
 Pyrazine 2,5-dimethyl, 275⁹
 C₆H₅N₂O Phthal diamine-567⁹, 465⁹
 Pyridine 3-amino-2-methoxy, and di HCl 953¹
 2(1) Pyridine 5-amino-1-methyl 953¹
 1 Pyroloacetamide 1521¹
 2 Pyroloaldehyde, 5-methyl oxime 2065⁹
 C₆H₅N₂O₂ Imidazolepropionic acid 1901¹
 Glucal 3,5-dimethyl 84¹
 C₆H₅N₂O₃ Propionitrile β β sulfonolias, 5662³
 C₆H₅N₂O₃ Imidazolelactic acid, 1901¹
 C₆H₅N₂O₃ Benzenesulfonic acid 2,4-diamino-, 2703¹
 Benzenesulfonic acid o-hydrazino 502¹
 C₆H₅N₂O₃ 3-Hydrazinacetic acid Me ester 4225⁹
 5-Pyrimidinacetic acid hexahydro- 4 di keto- P 1033⁹
 C₆H₅N₂O₃ Phenylmercaptan 2,5-diamino- 4a deriv P 4360
 C₆H₅N₂O₃ Quinidine deriv of compd from glyoxal and urea 77⁹
 C₆H₅N₂O₃ Furazans 5 acetyl 4 amino- oxime Ac deriv 3672⁹
 C₆H₅N₂O₃ Hexamethyl hexanolate 167⁹ P 5623¹
 C₆H₅N₂O₃ Cyclohexenone 939
 Sorbaldehyde 653¹ and V₂O₅ compd 5691¹
 C₆H₅N₂O₃ 1,2-Cyclohexanedione 485⁹
 1,2-Cyclohexanedione 3-hydroxy 3319⁹
 C₆H₅N₂O₃ Glutamic anhydride β-methyl 367⁹
 C₆H₅N₂O₃ Fumaric acid di Me ester 5535⁹
 Et ester 4705⁹
 Glutamic acid α-methylene 53¹
 Hydrazinacetic acid 579⁹
 Valeric acid, di Me ester 3375⁹ Et ester 4703¹
 C₆H₅N₂O₃ 2,5-Dihydroxy carboxylic acid 292⁹
 C₆H₅N₂O₃ 3,5-Selenophenedicarboxylic acid tetrahydro- and 4a- 463⁹
 C₆H₅N₂O₃ 1,1-Cyclohexanedicarboxylic acid 3 hydrazo-, 207⁹
 C₆H₅N₂O₃ Threosulfinic acid 4910
 C₆H₅N₂O₃ See Citric acid
 C₆H₅N₂O₃ Mannitol trimethyl 396⁹
 C₆H₅N₂O₃ 2: Transmercaptan 4 amino-6 propyl Ag deriv 03⁹
 C₆H₅N₂O₃ See Alkylamine acetate
 C₆H₅N₂O₃ 1-Proton-3-ol 1 bromo-3-methyl "3p
 C₆H₅N₂O₃ Cynic acid 5656⁹
 C₆H₅N₂O₃ Pentene 6-chloro-4-methyl 1815¹
 C₆H₅N₂O₃ Asparagine N-chloroacetyl 76 2814¹
 C₆H₅N₂O₃ 4-Pyrazinylchloride tetrahydro-, 654¹
 C₆H₅N₂O₃ Acetoacetic acid α-chloro- Et ester, 2973⁹
 Furoyl 2,6-furo-3-ol, 6-chlorohexahydro- 453⁹
 C₆H₅N₂O₃ Cyclopentan-1-ol trichloromethyl 353⁹
 C₆H₅N₂O₃ Chloroform acetate 107⁹
 C₆H₅N₂O₃ Cadoloham acetate 565⁹
 C₆H₅N₂O₃ 3,6⁹
 C₆H₅N₂O₃ Lanthanum acetate 565⁹
 C₆H₅N₂O₃ = Pinicoumarin γ-methyl, "q- 2967⁹ 4173¹, 4222¹
 C₆H₅N₂O₃ 1-Methylpyridinium hydrazide, 1884¹
 4-Pyrazinyl, tetrahydro-, 681¹
 1-Pyrazolmethanol, 1824¹
 Sorbaldehyde, oxime, 5691¹
 C₆H₅N₂O₃ Isovaleric acid, α-cyano-, 3619⁹
 Propionic acid, α-cyano-, Et ester, 517⁹
 C₆H₅N₂O₃ 2-Thiophenethylamine, 2194¹
 C₆H₅N₂O₃ Benzenesulfonic acid, 3,4-diamino-, P 4235⁹
 C₆H₅N₂O₃ Pyrazine, 3-amino-2,5-dimethyl, 2725⁹
 Pyrimidine 2-amino-4,5-dimethyl, 1204¹
 C₆H₅N₂O₃ (See also *Hydrazine*)
 Cupletone, 2614¹
 C₆H₅N₂O₃ Histidine 2-mercapto-, and di HCl, 12474¹
 1,3,4,6-Thiothiazine 5-ol, 2-methylamino-, Ac deriv, 3002⁹
 C₆H₅N₂O₃ 3-Hydrazinacetamide, N-methyl 4225⁹
 C₆H₅N₂O₃ 310 Isonitrosyl, β-methyl-8-sulfone, NH₂ salt, 3969⁹
 C₆H₅N₂O₃ Nodysium acetate, 5858⁹
 C₆H₅N₂O₃ Pseudosodium acetate, 5858⁹
 C₆H₅N₂O₃ Samarium acetate, 5858⁹
 C₆H₅N₂O₃ 1-Lithium acetate 5858⁹
 C₆H₅N₂O₃ (See also *Cyclotriazene*)
 1,3-Butadiene, 2,3-dimethyl, 1482¹, 1796¹
 Hexadiene 1482¹ 2684¹
 Pentadiene methyl 1796¹
 C₆H₅N₂O₃ Propionic acid α α bromobutyl-(), P 2155¹
 C₆H₅N₂O₃ Propionic acid, α,ω-dibromobutyl-, P 2155¹
 C₆H₅N₂O₃ Butyric acid, α-bromobutylamido, 2693¹
 Isobutyric acid α-(α-bromobutylamido), 2693¹
 C₆H₅N₂O₃ Cyclohexene, 1,4-dibromo-, 5596¹
 C₆H₅N₂O₃ Thiophene, 3,4-dibromomethylhydro-3-methoxy-4-methyl 5-dibromo, 277¹
 C₆H₅N₂O₃ Butane 1,2,3,4-tetrabromo-2,3-dimethyl 1216¹
 C₆H₅N₂O₃ Ethyl, bis(β-dibromomethyl)sulfonyl 1216¹
 C₆H₅N₂O₃ Acetylacetic dichloro compd with EtO, 4217⁹
 C₆H₅N₂O₃ Butenediisulfonyl chloride, 2,3-dimethyl, 1216¹
 C₆H₅N₂O₃ 527⁹
 C₆H₅N₂O₃ Acetamide α-cyano-(hydroxymercuric) N-propyl, 3619⁹
 C₆H₅N₂O₃ Isonitrosyl, 3-iodo-α-dimethyl-, propyl ester (1) 3516¹
 Isonitrosyl and β-iodo-α-methylbutyl ester (1) 2616¹
 C₆H₅N₂O₃ Thiazole 2,4-dimethyl, methanolate, 704¹
 C₆H₅N₂O₃ Cyclohexene, 1,4-dibromo-, 5596¹
 C₆H₅N₂O₃ Potassium salt of semicarbazone of compd from 2-methyl-2-butenedione sulfone 277¹
 C₆H₅N₂O₃ Pyrolo, 3-amino-2,4-dimethyl, 961¹
 C₆H₅N₂O₃ Urea (γ-keto-β-methyl-α-butyryl) 1253¹
 C₆H₅N₂O₃ See *Cardiacide*
 C₆H₅N₂O₃ 4-Imidazolecarboxamide, 4-amino-tetrahydro 2,5-dichloro N,1-dimethyl, 3962¹
 C₆H₅N₂O₃ 311 Compd, as 93-7⁹, from glyoxal and urea, 274¹
 C₆H₅N₂O₃ 2: Transmercaptan, 4-amino-6-propyl, 765¹
 C₆H₅N₂O₃ (See also *Cyclotriazene*)

- Allyl ether, 4627¹, 5392¹
 β -Butenolide, α, α dimethyl, 2660²
 Cyclohexane, epoxy 2909²
 Δ^1 -Cyclohexenol, 4235²
 Cyclopentanone, 3-methyl, 3318², 5403²
 α -Hexenaldehyde 5140²
 Mesityl oxide, P 716², 935², 2124²
 Δ^1 -2 Pentalene, 3 methyl, 3312², 3319²
C₆H₈O, Anhydrosulfoxylhexanone, 4584²
 Crotonic acid, Et ester 82²
 Hexanedione, 1802², 4548²
 α Hexenoic acid 5140²
 Hydrosulphic acid 3316²
 Methacrylic acid Et ester P 5177²
C₆H₈O₃, Acetoacetic acid β thio- Et ester 5663²
C₆H₈O₃, Formic acid, thiothiothio di Et ester, P 4590²
C₆H₈O₃ (See also Acetoacetic acid ethyl ester)
 Caproic acid 4-keto- 2470²
 2,5 Hexanedione 3 hydroxy 494²
 Levulinic acid Me ester 495², 5398²
 Propionic anhydride, P 2739²
 4 Pyranecarboxylic acid, tetrahydro- 681²
C₆H₈O₃, Thiophene 2 5-dihydro-3 methoxy 4 methyl 5 dione 277²
C₆H₈O₄ (See also Adipic acid Glucal)
 1,4 6 8 Dioxanodioxan hexahydro 4448 6170²
 Glutene acid β methyl 362², 5661²
 Malonic acid ethylmethyl 5664²
 — isopropyl 496², 5664² salts 5823²
 —, methyl di Me ester 917²
 —, propyl 496², 5664² salts 5823²
 Mannal 5147²
 Mannide 4526²
 Oxalic acid di Et ester 2038², 5323 5390², 5892² compd with BP 5891
 Succinic acid α β dimethyl 5664²
C₆H₈O₃, Propionic acid β β thiothio P 1957²
C₆H₈O₃, Acetic acid α (ethylthioethiothio) bis 4503²
 Propionic acid di thiothio 894²
C₆H₈O₄, Amylose 1405²
 Anhydrofructose 1223²
 Anhydroglucose 85²
 3 6-Anhydroglucose, 2120²
 Galsetal 2-oxo, 279²
 Glucosamine lactone, 498²
 Lactic acid, lactate 5934²
 Levoglucosan, 1406²
(C₆H₈O₄)_n, See Cellulose Dextrin Glycogen Iamla
C₆H₈O₄, Galactonolactone, 277², 5398²
 Glutonolactone 277²
 Mannonolactone 277², 5815²
 Succinic acid α β -dimethoxy 5149²
C₆H₈O₅, Acetic acid α α' (ethylthioethiothio) bis 5392²
C₆H₈O₅ (See also Galactonolactone Glucosamine Mannonolactone)
 Hexuronic acid, 984², 2483², 5465²
C₆H₈O₅, Glutamic acid trihydroxymethoxy 5802²
 Mannosaccharic acid K salt 5893²
 Mutic acid P 5554²
 Saccharic acid 1873², 2171²
C₆H₈O₅, Acetic acid (ethylthioethiothio) bis, 277²
C₆H₈S, Allylsulfide 2365², 6094²
C₆H₈AuBr, Cyclohexylgold dibromide 4220²
C₆H₈Br, Cyclohexane, bromo-, 864²
 2 Hexene, 4 bromo- P 1261²
- C₆H₈BrMg**, Cyclohexylmagnesium bromide 2658 2976²
C₆H₈BrN₂O, See Bromural
C₆H₈Cl, Cyclohexane chloro 864²
C₆H₈ClMg, Cyclohexylmagnesium chloride 2976²
C₆H₈ClO, Valeryl chloride β methyl 3312², 3626²
C₆H₈ClO, 1 Butanol 3 chloro- acetate P 3606²
C₆H₈ClNO, Carbamic acid β β dichloroethyl propyl ester 5213²
C₆H₈Cl₂O, P 2 Propanol 1 3-dichloro- see ordinary phosphate Cu salt 3803²
C₆H₈CrNO, Chromium acetate nitrate 4480²
C₆H₈CrNO, Cyclohexane iodo 864²
C₆H₈N, Capronitrile 912², 2694², 5323²
 Isocapronitrile 4795 5893²
 Δ^1 -Pyrrolone 1 2 dimethyl and salts 102²
 — 2-ethyl and chloroacetate 2997²
 Valeronitrile β methyl 3626²
C₆H₈NO, Cyclohexanone oxime 2115²
 Hexamethylenimine 2 keto 484²
 Δ^1 2 Pentenone 3 methyl oxime 4310²
 2 Pyrronolone 5 ethyl and salts 4548²
C₆H₈NOS, Carbamic acid allylthio N t ester 556²
C₆H₈N₂O, Crutamic acid β amino Et ester 5394²
 α Pentenamido γ methyl 2992², 4183²
 Δ^1 Pyranecarboxamide tetrahydro- 681²
C₆H₈NO₂, Oxamic acid Bu and methyl esters 5892²
C₆H₈NO₂S, Butyric acid α formamido- γ methyl mercapto- 5396²
 Imidothiocarboxylic acid thiothio- di Et ester 2977²
C₆H₈N₂O, Acrolein α -ethyl (?) semicarbazone 2414²
 α Pentaldehyde semicarbazone 5140²
 Semicarbaldehyde semicarbazone 2414²
C₆H₈N₂O, Asparagine glycol 6095²
 Glycine N (2 glycolglycol) 2027², 6816²
C₆H₈ (See also Cyclohexane)
 Butene 2 3-dimethyl 1215², 3617²
 — 2 ethyl 3617²
 Cyclopentane methyl 5890²
 Cyclopropane 1 ethyl 2 methyl 4530²
 Hexene, 1737²
 1 Pentene 2 methyl, 3617²
C₆H₈Ag₂I₂KO, 5362²
C₆H₈BrClO, Methane (β iodo β -chloroiso propoxy)ethoxy 2979²
C₆H₈Br₂, Hexane 2 4 dibromo 4530²
C₆H₈Br₂O, Ether α β -dibromobutyl ethyl, 2684²
C₆H₈Br₂S, Selenopane dibromide 1521²
C₆H₈Cl₂O, Methane (β -chloro β iodoiso-propoxy)ethoxy 2979²
C₆H₈ClNO, Acetamide α -chloro- N N-diethyl 2116², 4525²
C₆H₈Cl₂HgS, Cyclohexenolactone 2 methyl, compd with HgCl₂, 1521²
 Selenopane compd with HgCl₂, 1521²
C₆H₈Cl₂O, Ether, bis(β chloroisopropyl) 2416²
 3 Pentanol, 3 (dichloromethyl), 2112²
C₆H₈Cl₂O, Methane (β, β dichloroisopropoxy) ethoxy 2979²
C₆H₈Cl₂S, Selenopane dichloride 1521²
C₆H₈CuN₂Na₂O, Malonamide, Na Cu deriv., 497²
C₆H₈HgO₂S, Butyric acid, α (ethylthioethiothio) mercapto-, 1821², 4907²

- Valerianic acid, α hydroxy- α methyl monoacetaldehyde with H₂SO₄, 5685¹
 C₆H₁₂NO₆ Glucose, osmic, 1220²
 C₆H₁₂N₂O Butylaldehyde α methyl, semi-carbazone 71¹
 1 Piperidinecarboxylic acid hydrazide, HCl 4269²
 C₆H₁₂O₇P Gelactose 6-phosphate 5666²
 Glucosephosphoric acid, 498² and *Em* salt 5665², 5666¹
 C₆H₁₂ (See also *Hexane*)
 Butane, dimethyl-, 2275² 2889²
 Pentane, methyl-, 2275² 2889¹
 C₆H₁₂AuBr Diisopropylgold bromide 4220²
 Diisopropylgold bromide 4220²
 C₆H₁₂AuCl Diisopropylgold chloride 4220²
 Diisopropylgold chloride, 4220²
 C₆H₁₂CaO₂, α , α Calcium diglyoxalate 3950²
 C₆H₁₂CINO₃ Butylsulfonyl chloride ethyl imido-, 1812²
 C₆H₁₂N₂ Piperaidine, dimethyl 2² 29² 3617¹
 C₆H₁₂N₂O Leucanamide 4850²
 C₆H₁₂N₂O₂ (See also *Lysine*)
 Hydrocylammonium β amyl α methyl β nitroso-, 5406²
 C₆H₁₂N₂ Adipamidine di HCl 5665²
 C₆H₁₂N₂O₂ See *Asparagine*
 C₆H₁₂O Ether butyl ethyl 931¹
 Ether *tert* butyl ethyl 931¹
 2-Hexanol 1818²
 Hexyl alcohol 2889² 5322²
 Isopropyl ether P 302²
 Pivalanol methyl 3626² P 4724² 4845²
 Propyl ether, P 302² 2038², 5322²
 C₆H₁₂O₂ Acetal 4523² 5097²
 1 Butanol 4-ethoxy 4525²
 Butylaldehyde di Me acetal 1798²
 Hexaoedol 1798² 4530²
 1 Pivalol 3-methoxy 4525²
 Pivalol 1798² 1799²
 2 Propanol 1-isopropoxy 2416²
 C₆H₁₂O₂ 1 Butanoic acid, Cl ester, 1812²
 Ethanol 2 (β ethoxyethylmercapto), 2114²
 C₆H₁₂O₂S Ethane, β bis(ethylsulfonyl) 5392²
 C₆H₁₂O₂ Propane, 1,2,3 trimethoxy 2692²
 1,2 Propanediol 3 propoxy 684²
 C₆H₁₂O₂ Butyl ethyl sulfate 5662²
 Hexanoic acid, 5393²
 Isopropyl sulfate 1797²
 Propyl sulfate, 1797²
 C₆H₁₂O₂ 1,3 Propanediol, 2 (hydroxymethyl) 2 (methoxymethyl), 1801²
 C₆H₁₂O₂S Sulfone bis(β methoxyethyl) 5662²
 C₆H₁₂O₂S₂ 1,6-Hexanedithiolene acid, 1522²
 C₆H₁₂O₂ Rhamnilol, 84², 4457²
 C₆H₁₂O₂ + 3H₂O Rhamnilol trihydrate, 3486²
 C₆H₁₂O₂ See *Isosorbide Sorbidol*
 C₆H₁₂ 3 Amyl mercaptan α -methyl-, 75²
 Hexyl mercaptan 75²
 Propyl sulfide 1863², 5094²
 C₆H₁₂ Si Propyl disulfide 4063²
 C₆H₁₂BrSn Stannous bromotriethyl 3978²
 C₆H₁₂ClINO γ -Chloro- β hydroxypropyltrimethyl ammonium iodide 5395²
 C₆H₁₂ClO₂S Tris(β hydroxyethyl)sulfonium chloride, 2114²
 C₆H₁₂ClPb Plumbane, chlorotriethyl-, 2688²
 C₆H₁₂ClSn₂Zn, 2655²
 C₆H₁₂HgI₃ Triethylsulfonium mercuriiodide, 690²
 C₆H₁₂HgI₃ Triethylsulfonium dimercurepenta iodide, 690²
 C₆H₁₂N₂ (See also *Triethylamine*)
 Amylammonium γ methyl 3626²
 Dipropylamine, 1811² *HS* salt 4219²
 salts 70²
 Hexylamine salts 70²
 C₆H₁₂NO Butylamine γ ethoxy 3962²
 C₆H₁₂NO₂ 1 Butanesulfonamide, γ ethyl-, 1812²
 C₆H₁₂NO₂S 1 Butanesulfonamide, γ ethyl-, 1812²
 C₆H₁₂HO₂ Choline formyl 1004²
 Triethylamine β β β trihydroxy 3318²
 5748² 5818²
 C₆H₁₂N₂ Guanidine isomyl sulfate P 304²
 γ Triazene hexahydrazide 135 trimethyl-, 4523²
 C₆H₁₂N₂O Semicarbazide 2 α ethylpropyl 2416²
 C₆H₁₂N₂O₂F Arzmannephosphoric acid 1690²
 C₆H₁₂CIN Triethylammonium chloride 2520²
 C₆H₁₂ClNO₂ Diisopropylamine perchlorate 3545²
 C₆H₁₂ClHgIN, 5108²
 C₆H₁₂IN₂ Ammonium ferrocyanide 5860²
 C₆H₁₂IN₂ 1,6-Hexanediamine di HCl 4525²
 Putrescine dimethyl and salts 2691² 51²
 C₆H₁₂Ne Acetone and salts 5665²
 C₆H₁₂N₂S Cuaolbor α α thioethylene)bis-, 118 P 55²
 C₆H₁₂Sn Stannane diethylidimethyl 4863²
 C₆H₁₂AgBrN₂ Diethylgold bromide compd with ethylenediamine 1216²
 C₆H₁₂AgIN₂ Diethylgold iodide compd with ethylenediamine 1217²
 C₆H₁₂BN₂ Boron triethylamine 70²
 C₆H₁₂O₂P₆ Inositolhexaphosphate acid Ca salt P 246²
 C₆H₁₂Cl₂MoN₂ 3567²
 C₆H₁₂Ag₂Co₂IN₂ 5108²
 C₆H₁₂Ag₂IN₂IN₂ 5108²
 C₆H₁₂Ag₂IN₂Zn 5108²
 C₆H₁₂BiCl₂Co₂N₂ + 2H₂O 5108²
 C₆H₁₂BiCl₂Cr₂IN₂ 5108²
 C₆H₁₂Br₂N₂Zn 3925²
 C₆H₁₂Br₂Co₂IN₂ 5108²
 C₆H₁₂Br₂Hg₂N₂IN₂ 5108²
 C₆H₁₂Br₂Co₂IN₂ 5108²
 C₆H₁₂Br₂Hg₂N₂Zn 5109²
 C₆H₁₂CdCl₂IN₂ 5108²
 C₆H₁₂CdCl₂IN₂, 5108²
 C₆H₁₂CdHg₂IN₂ 5108²
 C₆H₁₂Cl₂Co₂IN₂ 5108²
 C₆H₁₂Cl₂Co₂IN₂ 5108²
 C₆H₁₂Cr₂Hg₂IN₂ 5108²
 C₆H₁₂IN₂Zn 3925²
 C₆K₂N₂V 2935²
 C₆K₂MoN₂ Potassium manganocyanide, 2917²
 C₆K₂MoN₂Zn + 6H₂O 689²
 C₆K₂MoN₂ Potassium cyanocyanide, 2917²
 C₆La₂O₂ Lanthanum oxalate 2901²
 C₆MeO₂ Methyldeum carbonyl P 5523²
 C Ba₂K₂N₂S₂ + 5H₂O Barium potassium thiocyanate 2044²
 C Br₂O₂ Benzene acid, 2 3 4 5 tetrabromo-6-sulfo- anhydride, 511²
 C H₁₂NO₂S Saccharin tetraoxo- 511²
 C₆H₁₂Cl₂N₂ Benzocnitrile, 2,4,6 trichloro 2698²
 C₆H₁₂Cl₂O₂ Formic acid, chlorothioacetic, 2,4 6 trichlorophenyl ester 931²
 C₆H₁₂BrCl₂O₂ Anisole, 4 bromo 2 3 5,6 tetrachloro- 5133²
 C₆H₁₂Br₂O₂ Benzaldehyde, 4 bromo-3,5-dibromo- 1230²

- C₆H₅BrN₂O₄ Benzaldehyde bromo-2-hydroxy-
diester 4519
- C₆H₅BrN₂O₄ Benzaldehyde dibromo-2-hydroxy
diester 4519A
- C₆H₅BrCl₂O Anisole 2,4,5-tribromo-3,6-di-
chloro 4537
- C₆H₅Br₂O Anisole 2,3,4,5,6-pentabromo-
1815
- C₆H₅ClN₂O Benzoyl chloride 3,4-dinitro-
4553
- C₆H₅Cl₂N Benzotrinitro dichloro 923 2608⁸
4550
- C₆H₅Cl₂NO Isocyanic acid 2,4-dichlorophenyl
ester 1504
- C₆H₅Cl₃O Anisole 2,3,5,6-tetrachloro-4-iodo-
5153
- C₆H₅Cl₃O Anisole pentachloro 4245
- C₆H₅Cl₃NO Salicylic acid 5-nitroso- C₆H₅
deriv 3635A
- C₆H₅Cl₄O Benzaldehyde 2,4,6-trinitro 3974⁸
- C₆H₅Cl₄O Benzene acid trinitro 3,2,6
- C₆H₅Cl₄O Anisole 1,2,6-trinitro-4-thiocyano-
2699
- C₆H₅Cl₄N₂ Benzothiazole 1-amino-3-bromo-
5-chloro 4811
- C₆H₅Br₂NO Benzaldehyde bromohydroxy nitro-
4540
- C₆H₅Br₂N₂ Thiocyanic acid *p*-bromophenyl
ester 2694
- C₆H₅BrCl₂O Anisole 4-dibromo-3,6-dichloro-
4537
- C₆H₅Br₂O Benzene acid 2,6-dibromo 3535⁸
- C₆H₅Br₂O *p*-Resorcylic acid 3,5-dibromo-
2671
- C₆H₅BrClN₂ Benzothiazole 1-amino-3-bromo-
5-chloro dibromide 4851
- C₆H₅Br₂NO Anthranic acid 3,4,5-tribromo-
F 4553
- C₆H₅Cl₂PO Benzoyl chloride *o*-fluoro 4239⁸
- C₆H₅Cl₂N Benzotrinitro *o*-chloro 2699⁸
- C₆H₅Cl₂NO Benzaldehyde 4-chloro-3-nitro-
4230
- C₆H₅Cl₂NO Benzene acid 4-chloro-3-nitro-
4530
- C₆H₅Cl₂N₂ Benzothiazole chloro P 3016⁸
4254
- Thiocyanic acid *p*-chlorophenyl ester 2644⁸
2699
- C₆H₅Cl₂Hg₂O *p*-Resorcylic aldehyde 3,5-bis-
chloromercuric 2871
- C₆H₅Cl₂N₂O Benzothiazole 1,2-dichloro-5-
nitro 941
- C₆H₅Cl₂N₂O Toluene 2,6-dichloro-3,4-dinitro-
1501
- C₆H₅Cl₂N₂O Anisole 3,6-dichloro-2,4-dinitro-
4537
- C₆H₅Cl₂PO Benzaldehyde 4-chloro 9241 4549⁸
- C₆H₅Cl₂O Benzene acid dichloro 9241 4549⁸
- C₆H₅Cl₂N₂O Anthranic acid 3,4,5-trichloro-
F 4549
- To use 2,4,6-trichloro-2-nitro, P 7161,
1501
- C₆H₅Cl₂ Toluene *o*-2,5-tetrachloro 4500⁸
- C₆H₅Cl₂O Anisole 2,3,5,6-tetrachloro 5153⁸
- C₆H₅Cl₂O 1-iodo 2,3,5,6-tetrachloro-4-
methoxy 5153
- C₆H₅Cl₂O₂ 1,3,5-Oxadithien-3,3-dioxido-4-
carboxylic acid 2,6-bis dichloro-
methylene, Me ester, 2639
- C₆H₅FN₂ Isothiocyanic acid, *p*-fluorophenyl
ester, 4045
- C₆H₅FO₂ *p*-Resorcylic acid 3-(hydroxymer-
curyl), 4-benzylidene 971
- C₆H₅Hg₂O *p*-Resorcylic acid, 3,5-bis(hydroxy-
mercuryl), anhydride, 971
- C₆H₅INO Benzene acid, 2-iodo-5-nitro, 500⁸
- C₆H₅JN₂ Thiocyanic acid, *p*-iodophenyl ester,
2699⁸
- C₆H₅I₂O *p*-Resorcylic aldehyde, 3,5-diiodo, 2871⁸
- Salicylic acid diiodo, 3535⁸
- C₆H₅NO₂ Benzotrinitro, *p*-nitro, 81, 2693⁸
- C₆H₅NO₂ Isocyanic acid, *p*-nitrophenyl ester,
4561
- Ketone 4-isotrolyl 5-isotrolyl, add N₂
add compd, 5165A
- C₆H₅NO₂ (1,2) Benzoxazolone 5-nitro, 2994⁸
- C₆H₅NO₂ Benzaldehyde hydroxydinitro, 4549⁸
4541
- C₆H₅NO₂ Δ^{1,4}-Cyclohexadiene-2-carboxylic acid
2-dioxo-6-keto-5-sulfo, and salts, 3637⁸
- C₆H₅NO₂S Anisole, 2,6-dinitro-4-thiocyano-,
2700⁸
- C₆H₅NO₂S Benzeneazotic acid, 3-nitro-4-
thiocyano-, 1225⁸
- C₆H₅BrNO₂ Toluene, *p*-bromo-*o*-iodo-5-nitro-,
923
- C₆H₅BrNO₂ (1,2) Pyridineacetic acid, 3-bromo-2-
iodo-2-keto, P 1036⁸
- C₆H₅BrNO₂ Toluene *o*-bromo-2,4-dinitro-,
1515⁸
- C₆H₅BrN₂S Benzothiazole 1-amino-5-bromo, P
369
- C₆H₅BrO₂ Benzaldehyde *p*-bromo, 505⁸
- C₆H₅BrO₂ See Benzene acid bromo
- C₆H₅BrO₂S Salicylic acid, 5-bromo-3-sulfo-,
and acid K salt, 3637⁸
- C₆H₅BrNO₂ (1,2) Pyridineacetic acid, 3,5-di-
bromo-2-keto, P 1036⁸ P 2525⁸
- C₆H₅Br Toluene 2,4,6-tribromo, 4456⁸
- C₆H₅BrO₂ Guanacel tribromo, P 4012⁸
- C₆H₅ClHg₂O Benzene acid, *o*(m and *p*) (chloro-
mercuric) 923
- C₆H₅ClNO₂ Toluene *p*-chloro-*o*-iodo-5-nitro-,
923
- C₆H₅ClNO₂ Benzaldehyde, 1-chloro-2-nitro, 81
- Carboxybenzenediammonium chloride, 4707⁸
- Isocyanide, 4,5 (chloromethyl)isobutyl, 3163⁸
- C₆H₅ClNO₂ Carbamyl chloride, *p*-nitro, 3686⁸,
4831
- C₆H₅ClO (See also Benzoyl chloride 1)
- Benzaldehyde, chloro 502, 5428⁸
- C₆H₅ClO (See also Benzene acid chloro-)
- Salicyl chloride 2424
- C₆H₅Cl₂IO Anisole 2,4-dichloro-4-iodo, 4245⁸
- C₆H₅Cl₂N Benzaldehyde *o*-dichloro, 941
- C₆H₅Cl₂NO₂ Toluene dichloronitro, P 7161,
1501
- C₆H₅Cl₂NO₂ Δ^{1,4}-Cyclohexadiene, 2,6-di-
chloro-4-methyl-4-nitro, 5683⁸
- C₆H₅Cl₂NO₂S (See also Halogen 1)
- p*-Toluenesulfonyl chloride, 2-chloro-3-(and
6) nitro, P 621
- C₆H₅Cl₂NO₂S Benzene acid 4-amino-2,5-di-
chloro-3-sulfo, P 4716
- C₆H₅Cl₂ Toluene *o*-trichloro, 2883⁸
- C₆H₅Cl₂O Anisole, trichloro 4537⁸
- C₆H₅Cl₂O₂ 1,3,5-Benzenesulfonyl chloride,
2-hydroxy-4-methyl, P 1262⁸
- C₆H₅Cl₂IO Anisole 2,6-dichloro-4-iodo, di-
chloride, 4245⁸
- C₆H₅Cl₂NO₂ *p*-Aniline, 2,3,5,6-tetrachloro-,
and salts 5153
- C₆H₅FN₂S Benzothiazole, 1-amino-5-fluoro-,
4884⁸
- C₆H₅FNO₂ 1-Phenyl 2,4-d-sulfonyl fluoride
methyl-4-nitro, 281⁸

- C₇H₇NNaO₂** See *Urosedon*
C₇H₇IN₂O Toluene, *o* iodo-*p*, *o* dimtro-, 925¹
C₇H₇IN₂S Benzothiazole, 1 amino-5-iodo-, 4881¹
C₇H₇IO Benzoic acid, iodo-, 1133¹ 1503¹
C₇H₇INO₂ 1(2) Pyridineacetic acid, 3 5-di-iodo-2 keto-, P 1036¹ P 2523¹ and *Na salt* 4519¹
C₇H₇N (See also *Benzonitrile*)
 Benzene, isocyanate-, 5¹ 2423¹
C₇H₇NO Benzonitrile hydrosy 936¹ 4246¹
 Isocyanic acid Ph ester 5¹, 4536¹ 4793¹
C₇H₇NOS Thiocyanic acid hydroxyphenyl ester, P 5350¹
C₇H₇NO₂ 1(2) Benzoxazole 296¹
C₇H₇NO₃ Benzosulfonamide 928¹
 Thiocyanic acid dihydroxyphenyl ester P 5356¹
C₇H₇NO₂ Benzaldehyde nitro- 3400¹ 3426¹ 5844¹
 5(4) Isoxazole 3 (2 fused), 2143¹
C₇H₇NO₃ See *Saccharin*
C₇H₇NO₂ (See also *Benzoic acid nitro-*)
 Quinoline acid, 4269¹ *Cu salt* 3003¹
 Salicylic acid 6 nitroso-, *Cu deriv*, 3636¹
C₇H₇NO₃ Salicylic acid nitrosulfonyl and salt 3636¹
C₇H₇N₂S (See also *Isothiocyanic acid Ph ester*)
 Thiocyanic acid phenyl ester, 2411¹
C₇H₇N₂S Benzothiazole mercapto- 503¹ P 674¹ P 1039¹ 2330¹ P 3671¹, P 6437¹
C₇H₇N₂O₂ Isoxazole 4,6 (aminomethylene)bis- 6168¹
C₇H₇N₂O₃ Benzothiazole 1 amino-5-nitro 1044¹
C₇H₇N₂O₄ See *Toluenes, trinitro-*
C₇H₇N₂O₂ Anisole 2 4 6-trinitro- 4245¹ 4452¹
C₇H₇N₂O₃ Tetryl, 207¹ 1563¹ 2050¹
C₇H₇NaO₂ See *Sodium benzoate*
C₇H₇NaO₃ See *Sodium salicylate*
C₇H₇O₂Br 2330¹
C₇H₇CuP₂O₆ 5846¹
C₇H₇AsNO₃ Benzenearsonic acid thiocyanate- 1228¹
C₇H₇AsNO₃ 4 Deoxoarsazolesonic acid 1 mer- capto-, P 3361¹
C₇H₇AsNO₃ Deosonic acid 4 amino-2 mer- capto- 5 *Au deriv* P 391¹
C₇H₇BrF₂NO₂ 4 Nitro-*o*-toluenediazonium fluo- borate P 2298¹
C₇H₇BrFO Anisole, isomethoxy- 3323¹
C₇H₇BrNO₂ 1(2) Pyridineacetic acid, 5-bromo-2 keto-, P 1036¹ P 2523¹
C₇H₇BrNO Phenol dibromo-4 methoxy 4537¹
C₇H₇BrNO Ketone methyl 5 methyl 2 pyrrol- trioxime deriv 3008¹
C₇H₇ClFO Anisole chlorofluoro- 3323¹
C₇H₇ClIO Anisole, 2 chloro-4 iodo- 4245¹
C₇H₇ClNO Aethanamide 6-chloro- P 2850¹
 Benzamide, *p* chloro 2134¹
 Ketone 6-chloro-3 pyridyl methyl, 4268¹
C₇H₇ClNO₂ Toluene 4-chloro-2 nitro-, P 716¹
C₇H₇ClNO₂S Sulfide, chloromethyl *o*-nitro- phenyl, 2413¹
C₇H₇ClNO₂S *p* Tolueneulfonic acid, 2-chloro- 4-nitro-, 2702¹
C₇H₇ClN₂S Benzothiazole 4-chloro-, 4265¹
C₇H₇ClN₂O 2(3) Benzimidazole, 6 amino-4 chloro- P 4255¹
C₇H₇ClN₂O₂ 5-Nitro *o*-toluenediazonium chlo- ride, 453¹
C₇H₇ClO₂P Homocatechylphosphorus chloride 501¹
C₇H₇ClO₂P₂ Homocatechylphosphorus chloro- sulfide, 501¹
C₇H₇Cl₂ See *Toluenes dichloro-*
C₇H₇Cl₂O Anisole 2 5-dichloro- 4537¹ 4860¹
 Benzyl alcohol dichloro- 924¹ 4860¹
C₇H₇Cl₂O₂ Benzyl alcohol 3 5-dichloro-2 hydroxy P 974¹
C₇H₇Cl₂O Anisole 2 chloro-4 iodo-, dichloride 4245¹
C₇H₇Cl₂N *o*-Toluidine 3 6 6 trichloro- 1501¹
C₇H₇Cl₂O₂P Homocatechylphosphorus trichlo- ride 501¹
C₇H₇FIO Anisole fluoroiodo- 3323¹
C₇H₇FIO₂S *p* Tolueneulfonic fluoride 3 iodo-, 283¹
C₇H₇FIO₂S Benzeneulfonic fluoride 3 iodo-4 methoxy 283¹
C₇H₇F₂O₂Se 1 Phenol 2 4 dimethyl fluoride methyl 284¹
C₇H₇FeO₂ Compd from Fe(CO)₅ and bipyridyl 912¹
C₇H₇INO Toluene *m* iodo *o* nitro 925¹
C₇H₇INO 1(2) Pyridineacetic acid 3 iodo-2 keto- *Na salt* 5200¹
C₇H₇KNO₃ Sulfamic acid benzoate K deriv *K salt* 4526¹
C₇H₇NaNO₂ Toluene *m* isomtro- *Na salt*, 924¹
C₇H₇N₂ Benzonitrile *m* (acid *p*) amoo- P 3359¹
 Nicotinonitrile 6 methyl, and *HCl* 4268¹
C₇H₇N₂O 2(3) Benzimidazole 1603¹
C₇H₇N₂O Anthranilaldehyde 5-nitro- P 984¹ P 2850¹
 Benzamide *o* (*m* and *p*) nitro- 2134¹
 Carbinol 4 isonitro-1 5-nitro-5, 5188¹
C₇H₇N₂O₂ 2 Benzimidazoleulfonic acid 703¹
 Metanilic acid 6 cyano P 3359¹
C₇H₇N₂O₂ See *Toluenes dimtro-*
C₇H₇N₂O₂ Anisole 2 4 dimtro- 4245¹
C₇H₇N₂O₃ Benzenesulfonamide 4 formyl 3-nitro-, 928¹
C₇H₇N₂S 2(3) Benzimidazole 2 thio- 2934¹
 Thiocyanic acid (*p* aminophenyl) ester P 1258¹
C₇H₇N₂ 1, 2, 3, 4 Tetraol 5-phenyl P 3364¹
C₇H₇N₂O 1, 2, 3-Benzothiazole 1 methyl-6 nitro- 1230¹
C₇H₇N₂O Benzamide 5-methyl-6 nitro- 4266¹
 Benzitransole, 1 methyl-5-nitro-, 3 oxide, 4266¹
C₇H₇N₂O₂ Xanthine 8-(carboxymethyl)mer- capto 3966¹
C₇H₇N₂O₂ Aniline *N* methyl 2, 4 5-trinitro-, 4334¹
C₇H₇O See *Benzaldehyde*
C₇H₇O₂ (See also *Benzoic acid Salicylaldehyde*)
 Benzaldehyde hydroxy 4277¹, 5426¹
 Benzene 1 2 methyleoxy 4277¹
 Formic acid Ph ester 3625¹
 Toluenesulfone, 4538¹
C₇H₇O₂S Benzoic acid *o*-mercapto P 2155¹
C₇H₇O₂ (See also *Benzoic acid, hydroxy Per benzoic acid Protocatechuic aldehyde Salicylic acid*)
 2 Furancarboxylic acid 2142¹
 Gentisaldehyde, 287¹
o-Pyrocatechuic aldehyde 287¹
o-Resorcylic aldehyde, 287¹, 2085¹
C₇H₇O₂ Benzaldehyde 2 4 6-trihydroxy-, 287¹
 Gallaldehyde, 4277¹
 Protocatechuic acid 3273¹
o-Resorcylic acid 97¹

[illegible]

Prothion, 3-methyl-, and derox-, 3069
 Quinone, 6-methylsulfone, 3033
 Salsicylaldehyde, oxime, 1306⁹, 3589⁹, 3590⁹
 CH₃NO₂ Anisole, ether, 1797¹, 3828⁹, 5412⁹
 Cresol, nitro-, 102¹, 102¹, 114¹, 931¹
 At Pyrruone 34¹ acetic acid, 5 keto 3-methyl-, 102¹
 C₂H₅NO₂ Benzoic acid, *p*-sulfamyl-, 425⁹
 Sulfamic acid, benzoyl-, and K salt, 4326¹
 CH₃NO₂ 2-Furancarboxylic, 5(7) nitro-, acetate, 299⁹
 Pyruvic acid, 5-methyl-4 nitro-, Me ester 94⁹
 CH₃NO₂ Benzoic acid, 6-amino-3-sulfon-, 2703¹
 CH₃NO₂ Salicylic acid, 5-amino-sulfon-, 3636⁹, 3637⁹
 CH₃NO₂ Benzanide, thio-, 1810⁹
 CH₃NO₂ 2o Benzimidazolecarboxylic acid, 2-4,4-bis(2-nitro-*p*-tolyl)-, P 1034⁹, P 1034⁹, P 1325⁹
 CH₃NO₂ Aniline *N*-methyl-2-(and 4) nitro-*N*-nitroso-, 1354⁹
 Benzaldehyde, 2,6-diamino-3-nitro-, P 2839⁹
 CH₃NO₂ Aniline *N*-methyl-2-4-dinitro-, 2060⁹
 CH₃NO₂ 4o Lipoicacetic, 3665⁹, 3667⁹
 CH₃Q₂ 4-Homopropiotechoi, cyclic phosphate, 501⁹
 CH₃SO₂ Toluenes
 CH₃NO₂ Sulfonic acid, 2 mercapto-*p*-sulfamethyl-, S Ag deriv., *p*-*iso* salt, P 1325⁹
 CH₃NO₂ 2o Benzene-sulfonic acid, mercapto-(sulfamethyl)sulfon-, Ag deriv., *p*-*iso* salt, P 969⁹
 CH₃NO₂ Carbanone 1009⁹
 CH₃NO₂ 2o Benzene-sulfonic acid, mercapto-(sulfamethyl)sulfon-, Au deriv., *p*-*iso* salt, P 969⁹
 Nitroacetic acid, 4 mercapto-*N*-sulfamethyl-, S gold deriv., P 1840⁹
 Sulfamic acid, 2 mercapto-*N*-sulfamethyl-, S Au deriv., *p*-*iso* salt, P 1334⁹
 CH₃NO₂ Benzylamine, *p*-bromo-, 4213⁹
 CH₃NO₂ *p*-Anisidine 4-bromo-, P 1844⁹, 2568⁹
 CH₃NO₂ 2o Benzene-sulfonamide, *N*-benzoyl-methyl 667⁹
 CH₃ClNO₂ o-Toluidine 4-chloro-, 4560⁹
 CH₃ClNO₂ o-Anisidine 4-chloro-, P 1263⁹, P 1844⁹
 CH₃ClNO₂ 2-Furan-2-phenyl chlorate, 8-ethyl 2143⁹
 CH₃ClNO₂ 2-Furan-sulfonamide, *N*-chloro-, 4281⁹, 4281⁹
 CH₃ClNO₂ *p*-Tolyl mercaptan, 2-amino-*p*-chloro-, P 1098⁹
 CH₃ClNO₂ Pyridine, 2-(*p*-chloro-*p*-toluenamido)-*N*-methyl-, 1234⁹
 CH₃ClNO₂ Quinone, 2-chloro-, 1-oxime, campd with base, 3649⁹
 CH₃NO₂ Anandian, Quoro 2223⁹
 CH₃NO₂ Benzyl-*o*-, *p*-, 4243⁹
 CH₃NO₂ (21) Pyridine, 1-ethyl-5-nitro-, acid HCl, 943⁹
 CH₃NO₂ 3-Pyridinecarboxylic, 2,4-dimethyl-, 698⁹
 11-methoxy-*p*-toluene 1231⁹
 Quinone-sulfone, *N*-methyl-, 502⁹
 CH₃NO₂ Benzaldehyde, 2,6-diamino-, P 2835⁹
 CH₃NO₂ Benzoic acid, diamine-, 1560⁹, 3685⁹
 (C₂H₅)₂NO₂ 2o *N*-methyl-*N*-methyl-, 3653⁹
 CH₃NO₂ 4-Pyrimidinoldehyde, 2-ethylthio-, 1-ethylthio-, 1-ethylthio-*p*-hydroxy-6-*iso*-, 3001⁹
 CH₃NO₂ 2o Pyridine, 1-ethyl-5-nitro-, acid HCl, 943⁹

- 2(1) Pyridone, 1-ethyl 5-nitro-, 953^a
 C₈H₇N₃O₃ Δ^{1,2}, 1,4 Pentadienediol, 1,3-dinitro monacetate 940^a
 C₈H₇N₃ 1,2,3 Benzotriazole, 6-amino-1 methyl 1250^a
 C₈H₇N₃O 1,2,3 Benzotriazole, 5-amino-1 methyl, 3-oxide, 4266^a
 C₈H₇N₃O₃ Threobromic acid 2-thio-, 5894^a
 C₈H₇N₃O₃ (See also Threobromic acid) Theophylline 1 isocathine, 8,9 dimethyl 3965^a
 Paraxanthine, 1884^a
 C₈H₇N₃O₃ Uric acid dimethyl, 2120^a 4297^a
 C₈H₇N₃O₃ Methylamine perate, 70^a
 C₈H₇N₃O₃ Methylamine styphate 70^a
 C₈H₇N₃O₃ See also Benzyl alcohol Catechol
 C₈H₇O₃ 1,4 Thiopyrone 2,6-bis(methylmer capto) 932^a
 C₈H₇O₃ See also Camphor Saligenin)
 Orcinol, 939^a, 1761^a, 2660^a
 Phenol, methoxy, 563^a 5408^a
 1 Propanone, 1 (2 furyl) 514^a
 Pyrone dimethyl 2352^a 3994^a
 C₈H₇O₃N 2 Toluene sulfonic acid 3927^a
 C₈H₇O₃ 2 Furancarboxylic acid 1245^a 3645^a 8003^a
 Hydroquinone, 2 methoxy 3940^a
 Pyromucic acid 1 ester 124^a 3645^a 4263^a
 —, 5-methyl, Me ester 950^a
 C₈H₇O₃ (See also Toluene sulfonic acid)
 Methanesulfonic acid, 1 h ester, 4840^a
 C₈H₇O₃ 1 Phenol 4 sulfonic acid, Me ester 3322^a
 C₈H₇O₃ Guaninesulfonic acid P 5244^a K 1041 3804 4660^a
 Toluene sulfonic acid dihydroxy *Bo sol* 601^a
 C₈H₇O₃ 1,4 Thiopyrone 2,6 bis(methylsulfonyl) (?) 952^a
 O₈H₇O₃ Adipic acid *n* 3 γ 4-tetrahydroxy *n* methyl, diacetone 4526^a
 1,2,3 Butanetricarboxylic acid 1 hydroxy, γ lactone 1833^a
 O₈H₇O₃ Methuonic acid mono-Ph ester and derivatives 4840^a
 C₈H₇O₃ 1,1,2,3 Propenetracarboxylic acid 1803^a
 C₈H₇S Sulfide, methyl phenyl 2611^a
 γ Toly mercaptan, 93^a
 C₈H₇S 1,4 Thiopyrone 2,6 bis(methylmer capto)-4 thio-, 952^a
 C₈H₇AtN₃O₃ 3 Pyridinecarboxylic acid 5-acet amide, P 3361^a
 C₈H₇AsN₃O₃ Arsanilic acid, Δ methylnitro- 283^a
 C₈H₇AsO₃ Benzenearsonic acid, (methylsulfonyl) 92^a, 93^a
 C₈H₇BO₃ Botic acid, tolyl 927^a
 C₈H₇BO₃ Botic acid, ennyl 927^a
 C₈H₇BrN₃ Hydrazine, (2 bromo-γ tolyl) *ICI* 4244^a
 C₈H₇BrN₃O₃ Barbituric acid, 5 bromo-3-iso propyl, 5400^a
 Barbituric acid, 5 bromo-3-propyl 5400^a
 C₈H₇ClN₃O₃ Glynnamic, chloromethyl, *Ch* deriv., 80^a
 C₈H₇ClN₃O₃ Urea, *n* acetyl γ (β-trichloro-*n*-hydroxyethyl), acetate 5213^a
 C₈H₇F₃N₃O₃ 1 Phenol 2,4-disulfonyl fluoride methyl, NH₂ deriv., 284^a
 C₈H₇N₃ Pyridine 2 ethylamino-5 soda, P 2245^a
 C₈H₇N₃ 1 Ethyl 2 isodopyridinium iodide, 4269^a
 C₈H₇N (See also Aniline *N* methyl Benzyl amine Toluene)
 2,6-Lutidine and deriv., 3345^a
 C₈H₇NO Aniline 503 1501^a, 1505^a and *ICI* 4^a 97^a
 Cresol amino 931^a 3346^a 4802^a
 Ketone ethyl 2 pyrrol 2484^a
 — methyl 6 methyl 2 pyrrol 3008^a
 Phenol, *p* methylamino- 502^a 2660^a
 1 Propanone, 1 (2 pyrrol) 145^a
 Pyridine 2 (and 3) ethoxy 296^a
 2(1) Pyridone 4,6-dimethyl 1529^a
 — 1-ethyl 296^a
 2 Pyroolealdehyde 6-ethyl 3008^a
 C₈H₇NO₃ (See also 5 amino *ICI* 3880^a
 1 Pyroolepropionic acid 1521^a
 C₈H₇NO₃ Toluene sulfonamide 428^a, 2810 4534^a
 C₈H₇NO₃ Acetoacetic acid *n*-cyano, 1 t ester 917^a
 Butyric acid β-cyano-*n* epoxy, Et ester 2975^a
 2 Furanpropionic acid β-amino- 2143^a
 4 Pyranocarboxylic acid 4-cyanotetrabhydro- 681^a
 C₈H₇NO₃ Sulfamic acid, tolyl *Na salt*, 2703^a
 Toluene sulfonic acid amino 2703^a
 C₈H₇N₃O₃ Benzene trisulfonic acid *p*-car baside 4537^a
 O₈H₇N₃ Cyclopenta[4]pyrimidine 2-amino-6,7 dihydro 1244^a
 C₈H₇N₃O 1,4 *n* Pyrimidazol 5(3) one 2,8 di hydron 7 methyl 5655^a
 C₈H₇N₃O₃ *n* Phenylene diamine Δ¹ methyl 4 nitro 4265^a
 Semicarbazide 4 hydroxy 1 phenyl, 3634^a
 C₈H₇N₃ Semicarbazide 4 phenylthio, 1504^a
 C₈H₇AsNO₃ *n* Toluene sulfonic acid *n* amino 4 hydroxy P 714 P 1036^a
 C₈H₇BrN₃O₃ Iodine *N* bromoacetyl, 2603^a
 C₈H₇BrN₃O₃ Clutamic acid *N* bromoacetyl, 2604^a
 C₈H₇BrN₃O₃ Benzotriazole 2-dibromosulfonate 3,4,5,6-tetrahydro- 3817^a
 C₈H₇ClN₃ Cyclohexanetrinitrile 2-chloro-, 4531^a
 Pyroole 1 (γ chloropropyl), 1521^a
 C₈H₇ClN₃O₃ Probine 1-chloroacetyl, 77^a
 C₈H₇ClH₃O₃ Malonic acid, bis(chloromer cur), di Et ester 1219^a
 C₈H₇ClNO₃ Acetic acid *n*-trichloro- *p* peroxide 3961^a
 C₈H₇Cu₃O₃ 3220^a
 C₈H₇JNO₃ Isocyanic acid 2-iodocyclohexyl ester 3610^a
 C₈H₇N₃ Malonetrinitrile diethyl, 2697^a
p-Phenylene diamine *γ* methyl 504^a
 Tolylenediamine 503^a 1904^a 1905^a, 2125^a, 4312^a
 C₈H₇N₃O₃ Ketone, methyl 5 methyl 2 pyrrol oxime, 3008^a
 2 Pyroolecarboxamide 5 ethyl, 3008^a
 1 Pyroolepropionamide, 1521^a
 2 Pyrooletrinitrile 1 acetyl, 3998^a
 C₈H₇N₃O₃ 4 Pyroolecarboxamide, 4-cyanotetra hydro, 681^a
 Pyrimidine, 2,4-dimethoxy 5-methyl-, 84^a
 2(1) Pyridone, 4-methoxy 1,5-dimethyl, 84^a
 2 Pyroolecarboxylic acid, 4-amino-3,5-di methyl, 961^a
 Thymone, 3 ethyl, 84^a
 Ureol 1,3,5-trimethyl, 84^a
 C₈H₇N₃O₃ Thiosulfonic acid, 2,5-diamino *p* tolyl ester, 1250^a

- C₇H₁₃O₂: Acetic acid, α , α' (propyleneethio) bis-, and *Ca salt*, 1487²
- C₇H₁₃O₂: Acetic acid, *di*, 1910²
- Anhydromethylglucoside 658¹
- C₇H₁₃O₂: Guanoic acid 1511¹ 1600¹ 3349¹, 3689¹, 4603¹
- Sedosan 408¹
- C₇H₁₃O₂: Acetic acid, α , α' (propyleneethio) fooyl)bis- 1487²
- C₇H₁₃O₂: Cyclohexanecarboxylic acid dithio and *Ag salt*, 500³
- C₇H₁₃Br: 1 Pentose, 2 bromo-4, 4 dimethyl 486¹
- C₇H₁₃BrO: Ether α (bromomethyl) Δ^1 butenyl ethyl 2684¹
- C₇H₁₃Cl: 2 Hexene 4-chloro 3 methyl P 710²
- C₇H₁₃ClO: Caproyl chloride, β methyl 961¹ 3627¹
- C₇H₁₃ClO₂: 1 Propanol 2-chloro-, butyrate 2410¹
- C₇H₁₃ClNO₂: Carbamic acid β β dichloroethyl butyl ester 5213¹
- C₇H₁₃NiO: Urea 2 iodocyclohexyl 3610¹
- C₇H₁₃N: Capromide β methyl 3627¹
- Enanthoate 912¹ 8323¹
- Δ^1 -Pyrrolone, 2 ethyl 1 methyl and *salts* 107²
- C₇H₁₃NC: Heptamethylcinnone 2 keto-, 1301¹
- C₇H₁₃NO: Cyclohexanecarboxylic acid ϵ amino- 4531¹
- 2 Morpholine, 4-ethyl 3 methyl 3143¹
- C₇H₁₃NO₂: Isoleucine N formyl 2417¹
- C₇H₁₃NO₂: Malonic acid amino- di Et ester 919¹, 1218¹ 1453¹ 4852¹ 4653¹
- O₂H₁₃NE: Acetic acid thiono- piperidine 3062¹
- O₂H₁₃N₂O: β -Dutaldehyde α , α' dimethyl semicarbazone 2686¹
- α -Hexoaldehyde semicarbazone 5140¹
- Δ^1 -2 Pantoic acid 3 methyl semicarbazone 3312¹ 3319¹
- C₇H₁₃N₂O₂: 1,3,4,6-Thiodiazine 5-ol 2 isomethyl amino-, 3002¹
- C₇H₁₃N₂O₂: Levulinic acid Me ester semicarbazone 496¹
- O₂H₁₃N₂O₂: Alanine, N (N glycidyl)ethyl 2741¹
- Glycine N (N glycidyl)ethyl 2741¹
- C₇H₁₃ (See also Cyclohexane methyl)
- Cyclopentane, 1,2 dimethyl, 2421¹ 3890¹
- Cyclopropane, 1 methyl 2 propyl 4530¹
- 3 Heptene 1798¹
- Pentene dimethyl 5661¹
- ethyl 1798¹
- C₇H₁₃AsN: Diisopropylgold cyanide, 4220¹
- Diisopropylgold cyanide 4220¹
- C₇H₁₃BrNO: (See also Nardom)
- Valeramide α -bromo β ethyl P 381¹
- C₇H₁₃Br: Heptane 2,4-dibromo- 4530¹
- Pentane 1,2-dibromo-3 ethyl 1799¹
- C₇H₁₃N₂: Δ^1 -Pyrrolone 5-azopropyl 3 methyl 2118¹
- C₇H₁₃N₂O₂: 5-Heptanedione oxime 3008¹
- C₇H₁₃N₂O₂: Glycine N valyl 2627¹
- Isovaleric acid, β glycidylamino-, 78¹
- C₇H₁₃N₂O₂: Propionic acid, bis(glycidylamino) 5005¹
- C₇H₁₃O: Cyclohexanecarboxyl, 3319¹
- Cyclohexanol methyl P 3034¹, 3319¹ 4234¹
- Enanthaldehyde, P 2730¹, 5322¹
- Ether α -ethyl Δ^1 -butenyl methyl 2687¹
- 2 Heptanone 4061¹, 5003¹
- Pentanone dimethyl 1790¹
- C₇H₁₃O₂ (See also Enanthic acid)
- Acetic acid, Am ester β , 1170¹
- Acrolein di Et acetal, 2114¹
- Caproaldehyde, α -hydroxy- γ methyl, 2075¹ 3962¹
- Caproic acid methyl 3020¹, 4845¹
- 1,3-Dioxolane 4,4,5,5-tetramethyl, 5303¹
- Pyvalic acid Li ester, 1218¹ 1795¹
- Valeric acid Et ester 1797¹
- α β -dimethyl 4845¹
- C₇H₁₃O₂: m-Cresol thioether- 5407¹
- C₇H₁₃O₂: Butyric acid γ propoxy 3055¹
- Caproic acid α -methoxy 5672¹
- 2 Furancarbinol tetrahydro 5-methoxy 5 methyl (?) 488¹
- Lactic acid butyl ester 3182¹
- Propanol ethoxy acetate 2416¹
- 3 Pyranol tetrahydro 6 methoxy 6 methyl (?) 488¹
- C₇H₁₃O₂: Acetic acid β methoxyethoxy Et ester 2417¹
- Acetic acid β propoxyethoxy 2417¹
- Butyric mono- 5397¹
- Isobutyric mono- 5397¹
- Propanol dimethoxy acetate 916¹ 1484¹ 269¹
- C₇H₁₃O₂: Acetic acid [β -(β methoxyethoxy) ethyl] 2117¹
- Azaleone le α ethyl 1798¹
- (Lactosone) methyl 498¹
- Rhamnose methyl 1798¹
- O₂H₁₃O₂: Glucoside α methylthio- 4232¹
- C₇H₁₃O₂ (See also Glucose methyl Glucoside methyl)
- Diphtalene acid 6692¹
- Fructose 5 methoxy 5402¹
- Fructose 1 methyl 4232¹
- Galactone methyl 1798¹ 5115¹
- Glucose 6 Me ether 4230¹
- Gulonic methyl and compd with C₂H₅ 1494¹
- Mannopyranoside methyl 1222¹
- Mannoside methyl 1221¹ 1409¹ 1798¹
- Quercitrin 5893¹ 5814¹
- C₇H₁₃O₂: Glucoheptonic acid 918¹
- C₇H₁₃Te₄: Heptanone telluro- 3619¹
- C₇H₁₃Br: Heptane 1 bromo- 5322¹
- Hexane bromomethyl 3627¹ 3628¹
- Pentane bromodimethyl, 4845¹ 5601¹
- O₂H₁₃BrO: Ether β -bromo- α ethylbutyl methyl 2687¹
- 4 Heptanol 2 bromo- 4530¹
- C₇H₁₃Cl: Heptane 1-chloro-3 methyl 3626¹
- C₇H₁₃ClO: Heptanol 7-chloro- 5395¹
- C₇H₁₃ClO₂: Propionaldehyde, β -chloro-, di Et acetal 2114¹
- C₇H₁₃ClO₂: Hydracrylaldehyde, α -chloro-, di Et acetal, 1223¹
- C₇H₁₃ClNO₂: Compd b.p. 128-30°, from isomethylsulfonylmethylamide and PCl₅ 1812¹
- C₇H₁₃I: Heptane 1-iodo-, 5322¹
- C₇H₁₃IMg: Heptylmagnesium iodide 3959¹
- C₇H₁₃IS₂: Cycloheptanepentane 2 methyl, methoxide 1521¹
- Selenopane methoxide, 1521¹
- C₇H₁₃N: Cycloheptanamine, N methyl, P 3358¹
- Heptamethylamine, and chloroamine, 1500¹
- Pyrolidone 1,2,2-trimethyl, 102¹
- C₇H₁₃NO: Butyric acid, oxime, 6140¹
- Caproamide β methyl, 3627¹
- Enanthaldehyde oxime, 2115¹
- Enanthamide, 2972¹
- Epithyranamine, N, N-dimethyl, P 1259¹
- 3 Pentanone 2,4 dimethyl, oxime, 5140¹

- C₈H₈N₂NaO₂ 1(2) Phthalazone, 4 hydroxymetro-, Na deriv. 4001¹
- C₈H₈O₂ Phthalic anhydride, thio-, 938¹
- C₈H₈O₂ See Phthalic anhydride
- C₈H₈AgN₂O₂ 1(2) Phthalazone, 4 hydroxy Ag deriv. 4001¹
- C₈H₈Br Benzene, (bisomethoxy) 73¹
- C₈H₈BrClO₂ Vanillin, 5-bromo-2,6-dichloro 93¹
- C₈H₈BrClO₂ Phenol, 4 bromo-2,3,5,6-tetra-chloro-, 1817¹
- C₈H₈BrO₂ Phthalide 4 bromo- 3323¹
- C₈H₈Br₂N Indole, 5,6 dibromo-, 700¹
- C₈H₈Br₂NO₂ Quinone, 5 acetamido 2,3 di-bromo-, 2128¹, 2129¹
- C₈H₈Br₂NO₂ Benzaldehyde, 2,4-dibromo-3-methoxy-5-nitro-, 4340¹
- Isotauric acid, dibromo-, 700¹
- C₈H₈Br₂NO₂ Acetanilide, 3,5-dibromo-4 by-droxy 2,6-dinitro- 2128¹
- C₈H₈Br₂O Acetophenone, α tribromo- 71¹
- C₈H₈Br₂NO₂ Acetanilide tetabromo-4 hydroxy 2709¹
- C₈H₈Br₂O Phenetole 2,3,4,5,6 pentabromo- 1813¹
- C₈H₈Cl₂O₂ Phenol, 2 chloro-4,6-diortho-acetate 3978¹
- C₈H₈Cl₂NO₂ 4(3) Quinazoline 2-chloro-(?) 5899¹
- C₈H₈Cl₂NO₂ o-Toluenitrile, α-chloro-5-nitro- 3644¹
- C₈H₈Cl₂O₂ Phthalide chloro- 3323¹
- C₈H₈Cl₂O₂ Phthalide chloro-2 hydroxy, 1231¹
- C₈H₈Cl₂O₂ Terephthalic acid 2-chloro- P 970¹
- C₈H₈Cl₂HgN₂ Iodole 2,3 bis(chloromercu-), 701¹
- C₈H₈Cl₂O₂ Phenol, 2,4-dichloro-6 iodo-, acetate 1501¹
- C₈H₈Cl₂O₂ Acetophenone α trichloro- 5711¹
- C₈H₈Cl₂O₂ Acetophenone, α trichloro-β hydroxy, 935¹
- C₈H₈Cl₂O₂ Acetic acid, (2,3,4 trichlorophenyl mercapto) P 5040¹
- C₈H₈Cl₂O₂ Vanillin, 2,5,6-trichloro-, 95¹
- C₈H₈Cl₂O₂ Phenetole, 2,3,5,6-tetrachloro-4 iodo-, 1817¹
- C₈H₈Cl₂O₂ Phenol, 2,4 dichloro-6 iodo- di-chloride, acetate, 1501¹
- C₈H₈Cl₂NO₂ Acetanilide 2,3,5,6-tetrachloro-4 hydroxy 5153¹
- C₈H₈Cl₂O₂ Phenetole 2,3,4,5,6 pentachloro-, 1817¹
- C₈H₈Cl₂O₂ 1,3,5-Oxadithiane 3,3-dioxide-4 carboxylic acid, 4,6-dichloro-6-trichloro-methyl 2-dichloromethylene Et ester 3819¹
- C₈H₈Cl₂O₂ Phthalal, 4 iodo- 3325¹
- C₈H₈Cl₂N₂ Iodole, 2,3-diortho- 701¹
- C₈H₈NO₂ (See also Isatin)
- Orin de, N phenyl 2418¹
- Phthalazone, 2434¹
- C₈H₈NO₂ 2,3 Phenomorphisodione, 3340¹
- Phthalimide, hydroxy 1511¹, 3993¹
- C₈H₈NO₂ 3 Salicylic acid 5-thiocyano-, P 1258¹
- C₈H₈NO₂ Pyrimidic acid, 6 nitro-, 3324¹
- Pyridinetracarboxylic acid, 3817¹
- C₈H₈N₂NaO₂ 1(2) Phthalazone, 4 hydroxy, Na deriv. 4001¹
- C₈H₈N₂O₂ 1(2) Phthalazone, 4 hydroxymetro- 4001¹
- Phthalhydrande 6 nitro-, 4001¹
- Phthalimide, N amino 3 nitro-, 1511¹
- C₈H₈N₂O₂ Thiocyanic acid 3,5-dinitro-β-amyl ester, 2700¹
- C₈H₈N₂ Thiocyanic acid (4 amino-m phenylene) ester P 1258¹
- C₈H₈ Benzene ethyl 71¹, 2887¹, 5830¹
- C₈H₈BrClN₂ Benzothiazole, 3 bromo 5-chloro-1 methylamino-, 4881¹
- C₈H₈BrClN₂ Vanillin bromochloro- 94¹
- C₈H₈BrFN₂O₂ m Xylene 5-bromo-4 fluoro-2,6-dinitro- 2711¹
- C₈H₈BrIO₂ Phenol, 4 bromo-2 iodo- acetate 3978¹
- C₈H₈Br₂N a Toluenitrile β bromo- 2611¹
- C₈H₈Br₂NO₂ Styrene α bromo-β nitro- 4652¹
- C₈H₈Br₂NO₂ Quinone 2 acetamido-6-bromo- 2428¹
- C₈H₈Br₂N₂ Isothiocyanic acid, 3 bromo-β-tolyl ester 164¹
- C₈H₈Br₂NO₂ 1,2,3 Benzotriazole 1 acetyl 5 bromo- 4265¹
- C₈H₈Br₂NO₂ Acetanilide, 2 bromo-3 hydroxy 4,6-dinitro- 2128¹
- Phenol, 3-amino-6 bromo-2,4 dinitro-, Ac deriv. 2129¹
- C₈H₈Br₂NO₂ 6-Benzimidazole, 5,7-dibromo-2 methyl-, 2129¹
- C₈H₈Br₂NO₂ Acetanilide 2,4-dibromo 3 by-droxy 6-nitro 2128¹
- C₈H₈Br₂O Benzaldehyde 3,5-dibromo-2 hydroxy 287¹
- Benzaldehyde 3,5-dibromo-4 hydroxy 2 methoxy 287¹
- C₈H₈Br₂ClN₂ 5-Benzothiazole 3 bromo 5-chloro-1 methylamino-, dibromide, 4881¹
- C₈H₈Br₂NO₂ Acetanilide 2,4,6-tribromo-, P 973¹
- C₈H₈Br₂NO₂ Acetanilide, tribromo-2 hydroxy, 2709¹
- C₈H₈Br₂NO₂ Phenetole, 3,4,5 tribromo-2 nitro-, 1817¹
- C₈H₈Cl₂O₂ Phenol, 4-chloro 2 iodo-, acetate, 1501¹
- C₈H₈Cl₂N₂ Toluenitrile, chloro 60¹, 2611¹
- C₈H₈Cl₂NO₂ Piperonylideneimine N chloro-, 94¹
- C₈H₈Cl₂NO₂ m-Toluenesulfonyl chloride o cyano 3844¹
- C₈H₈Cl₂NO₂ Vanillin chloro-2 nitro 94¹
- C₈H₈Cl₂N₂ Benzothiazole chloromethyl 104¹, 931¹, P 3015¹, 4265¹
- o-Toluenitrile 4-chloro 6 mercapto- P 1284¹
- C₈H₈Cl₂N₂ Benzothiazole 1 aminodichloro 3 methyl P 958¹
- C₈H₈Cl₂O₂ Acetophenone 2,5 dichloro- 4860¹
- C₈H₈Cl₂O₂ Vanillin dichloro 94¹
- C₈H₈Cl₂NO₂ Phenol p (3 trichloro-α nitro ethyl) HCl 935¹
- C₈H₈Cl₂NO₂ Vanillin, 2,5,6 trichloro-, name 95¹
- C₈H₈Cl₂NO₂ Xylene tetrachloro- P 2443¹
- C₈H₈Cl₂O₂ Phenetole 2,3,5,6-tetrachloro- 1817¹
- C₈H₈Cl₂O₂ 1,3,5-Oxadithiane 3,3 dioxide 4 carboxylic acid 2,6 bis(dichloro methylene), Et ester 3819¹
- C₈H₈Cl₂O₂ 1,3,5-Oxadithiane 3,3 dioxide 4 carboxylic acid, 6 chloro 6 trichloro methyl 2 dichloromethylene, Et ester 3819¹
- C₈H₈Cl₂O₂ 2,5 Anhydro 5 hydroxymercu- 2 hydroxy 3 methoxybenzaldehyde 287¹
- C₈H₈Cl₂NO₂ 1,3 Pyridopyridine P 716¹
- Quinoxaline, 957¹

- C₈H₈IN₃** Benzothiazole, 5-amino-1 methyl amino- 4881¹
C₈H₈IO Phenol, o-amido- acetate 1504¹
C₈H₈IO Acetic acid [s(and s) iodophenoxy], 930¹
C₈H₈N See *Indole Toluenes*
C₈H₈NO Benzothiazole, 1 methyl, and *HCl*, 1249¹
 Iodoxy), 1566¹ P 1577¹
 Mandelonitrile 4868¹ 5112¹
 Oxindole 293¹
C₈H₈NO₂ Isothiocyanate acid β amyl ester 4242¹
 Thiocyanate acid, β amyl ester 2700¹
 cresylates, P 3356¹
C₈H₈NO₃ Oxindole, 3 hydroxy, 563
 3 Phenomorpholone 3346¹
 Phthalide, amino, 3325¹
C₈H₈NO₄ Acetophenone, m nitro- 4867¹
C₈H₈NO₅ Saccharin, 1 methyl 929
 α Toluenesulfonate acid, α -cyano *Ne salt* 3614¹
C₈H₈NO₆ Benzaldehyde 2 methoxy 5-mtro- 1230¹
 Isoochromerone acid methyl 3651¹ 3652
 Lubidine acid 3 methyl, 3652¹
 Quinoxaline acid 6-methyl (?) 3651¹
C₈H₈NO₇ 2,3-Pyrroledicarboxylic acid 3 isomyl 4 methyl 962¹
C₈H₈NO₈ Salicylic acid, nitrosulfo *Me ester* and salts 3637¹
C₈H₈N₂ Isothiocyanate acid, tolyl ester 1606¹ 4795¹
C₈H₈N₂ 2,4 Pyrroledinitrile 3,5-dimethyl 698¹
C₈H₈N₂O Furan 3 amino-4 phenyl 3337¹
 1,2,4 Oxadiazole 2-amino-5-phenyl 498¹
C₈H₈NO₃ 1,3,4 Thiodiazol 2(3)-one 3-amino- 1504¹ 3634¹
C₈H₈N₂O₂ 1(2) Phthalazone amino-4 hydroxy 4002¹
C₈H₈N₂O₃ Benzothiazole 1 methylamino 5 nitro- 104¹
 Benzothiazoline 1-amino-2 methyl 5 nitro- 3664¹
C₈H₈N₂O₄ Phthalate acid, 3 nitro, monohydrate *salts*, 1511¹
C₈H₈N₂O₅ Phenetole, 2,4,6 trinitro 2706¹
 3,5 Xylenol 2,4,6-trinitro, 930¹
C₈H₈N₂O₆ Isoxanthine 9 allyl 8 nitroso- 3966¹
C₈H₈ See *Styrene*
C₈H₈N₂ClO Phenetole β bromo- β iodo- di chloride 4245¹
C₈H₈BrF m-Xylene 5-bromo-4 fluoro- 2711¹
C₈H₈BrIO Phenetole bromoiodo- 3978¹ 4245¹
C₈H₈BrNO Acetophenone bromo oxime 3663¹
C₈H₈BrNO₂ Anthranilic acid 4 bromo, *Me ester* 1522¹
 Benzoic 1 (β bromoethyl)-4 nitro, 4240¹
 β Toluic acid 5-am-2,6-bromo- 1502¹
C₈H₈BrNO₃ Benzene 1 bromo-2,4-dimethoxy 5 nitro- 2985¹
C₈H₈Br₂O Xylene 4,5-dibromo- 694¹
C₈H₈Br₂O Phenetole dibromo-, 1517¹ 2706¹
 Xylenol, dibromo- P 4012¹
C₈H₈Br₂O₂ Benzene 1,4-dibromo-2,5-di methoxy, 4537¹
 Resorcinol, 4,8 dibromo 2,5 dimethyl 5413¹
 —, 2,4 dibromo-6 ethyl, 504¹
C₈H₈Br₂O₃ 1,4,1,4 Cyclohexadienol 2,3,5,6 tetabromo-1,4-dimethyl 4539¹
- C₈H₈CaNaO₄** + 8H₂O Sodium acetate, 1750¹
C₈H₈ClO Phenetole, 2 chloro 4 iodo, 4245¹
C₈H₈ClN Pyridine, 2-chloro 6,7 dihydro- 4863¹
C₈H₈ClNO Acetamide, N-chloro, 2699¹, 3220¹, 4533¹ 4534¹
 Anilamine N-chloro-, 94¹
 β Toluenamide α -chloro- 89¹
C₈H₈ClNO₂ Acetamide 5-chloro 2 mercapto-, 931¹
C₈H₈ClNO₃ Acetamide, chlorohydroxy, 1505¹, 3346¹
 Mandelamide chloro, 3637¹
 α Xylene chloromethyl P 973¹
C₈H₈ClNO₄ Phenetole 3-chloro 5 nitro, 2707¹
 Vanillin 2-aminochloro- 91¹
 — chloro- oxime, 94¹
C₈H₈ClNO₅ Sulfonic acid V-chloroacetyl 4283¹
C₈H₈ClNO₆ Benzothiazoline 4-chloro-1 methyl 4265¹
C₈H₈Cl₂ β Xylene α α dichloro 3973¹ 4450¹
C₈H₈Cl₂O Phenetole 2,4 dichloro- 2706¹
C₈H₈Cl₂O₂ β Caeol, 2,5-dichloro- α methoxy, 3663¹
 Resorcinol dichloroethyl 504¹
C₈H₈Cl₂O₃ 2,4 Xylenesulfonic acid dichloro P 2441¹
C₈H₈Cl₂O₄ Phenoldisulfonyl chloride di methyl 691¹ *
C₈H₈Cl₂NO Ketone 3,5-dimethyl 2 pyrrol tri chloromethyl 3008¹
C₈H₈Cl₂NO₂ Ketone 5 hydroxy-4 methyl 2 tri chloromethyl 3 pyrrol methyl 4000¹
C₈H₈HgO₃ Benzene (acetarsylmercur) P 324¹
C₈H₈HgO₄ Benzoic acid α (methylmercur) mercapto 1521¹, 4507¹
C₈H₈NO₂ β -Xylene, mido α nitro- 926¹
C₈H₈Li₂N₂O₄ + xH₂O Ammonium lanthanum oxalate 2658¹
C₈H₈N Indole 6-amino, 700¹
 α Toluenitrile β amino- P 3359¹
C₈H₈N₂O Benzothiazole amino-1 methyl and *HCl* 1249¹
 Glyoxal, phenyl, hydrazones(?), 5428¹
 Nicotinonitrile 1,2-dihydro-2 keto 4,6-di methyl 1529¹
 2 Pyrroledialdehyde, 4 cyano 3,6 dimethyl, 698¹
C₈H₈N₂O₂ Glyoxime phenyl and *HCl*, 1489¹
 Glyoxylamide oxime 2721¹
 2 Pyrroledicarboxylic acid 4-cyano-3,5-dimethyl 698¹
 Pyruval[2,3,4], 1,2-oxazin 4(1)-one, 2,7-di-methyl 3008
 Terephthalaldehyde, 2,5-diamino, P 2859¹
C₈H₈N₂O₃ Benzaldehyde, β nitro, oxime *N Me ether*, 5673¹
 Glyoxime (pyridylcarbonyl), 2699¹, 3000¹
C₈H₈N₂O₄ Acetamide 2 hydroxy-2 nitro-, 2129¹
 Carbanilic acid β nitro- *Me ester* 2686¹
 1,2 Xylene, 4,6-dinitro- 857¹
C₈H₈N₂O₅ Acetamide 2,5-dihydroxy-4-nitro-, 2129¹
 Phenetole, 2,4 dinitro- 4911¹, 2984¹, 3,5 Xylenol, dinitro, 930¹
C₈H₈N₂O₆ 2,4 Xylenesulfonic acid, 6 hydroxy-3,5-dinitro, 930¹
C₈H₈N₂S Benzothiazole, 1 aminoethyl, 103¹, P 963¹
 Thiocyanic acid, aminoethyl ester, P 3356¹

- C₈H₈N₂O Benzoxazole 1 guano-², 3089²
1 3 4 Oxadiazole 2 hydrazono 5 phenyl, 493¹
- C₈H₈N₂O₃ 3 2; Tetraammon, 1 4-dihydro-6-mercaptop 1 phenyl 3634¹
- C₈H₈N₂O₄ 1 3 Benzotriazole 1,6-dimethyl 4 n-² 12 0²
Isoxanthine allyl 3966²
- C₈H₈N₂O₅ 1 3 Isoxanthine 8-(carboxymethylmercapto) 9 methyl 3966²
- C₈H₈N₂O₆ 3 Benzotriazole 1,6-dimethyl 5-² n-² 3-oxide 4266²
- C₈H₈N₂O₇ Isoxanthine 8-(carboxymethylmercapto) 9 methyl 3966²
- C₈H₈N₂O₈ Anilox V-dimethyl 2,4,5-tri-² n-² 4534²
- C₈H₈N₂S Benzothiazole 1 guano-², 3089²
- C₈H₈N₂NiO₄ Butyronitrile α β-d keto-² oxime Niderv 3621²
- C₈H₈O (See also Acetophenone Tolaldehyde)
Ether phenyl amyl 3 302¹ P 428¹
Ethylene oxide phenyl 1241¹
Phenol α-vinyl 1224¹
- C₈H₈O₂ (See also Anisaldehyde Toluic acid)
Acetic acid Ph ester 3623¹
Acetophenone, α hydroxy 464¹
Benzaldehyde methoxy 3528¹ 3426¹
Benzoic acid Me ester, P 303¹ 3311¹
Δ²-2 Butenone 4 (2 fur)¹, 1215¹, 3424¹
- C₈H₈O₃ (See also Vanillic acid Vanillin)
Acetophenone, 2 4 d hydroxy 315¹ 4836¹
Anisaldehyde 2 hydroxy 287¹ 1507¹
Anisic acid 1161¹ 3412¹
Benzaldehyde 4 hydroxy 2 methoxy 1507¹
Benzoic acid, β hydroxy Me ester 1503¹
— α-methoxy 1161¹ 3376¹
2 6-Cresol 3654¹
Isovanillin 287 4277¹ 5156¹
α Resorcylic aldehyde 4-methyl 283¹
Salicylic aldehyde 5-methoxy 287¹
Salicylic acid Me ester 1761¹ 3324¹ P 5179¹
α Toluic acid β hydroxy 503¹
α Vanillin 287¹
- C₈H₈O₄ Dehydroacetic acid 2694¹ 4524¹
Gentalsaldehyde 4 methoxy "07" 3986¹
Homogentisic acid 331¹ 1610¹
Isovanillic acid 6158¹
Phloracetophenone 5411¹
Quinone dimethoxy 1229¹ 5405¹
β Resorcylic aldehyde 5-methoxy 3986¹ 4250¹
β Resorcylic acid Me ester 3663¹
Vanillic acid 1584¹ 5156¹
- C₈H₈O₅ Benzox acid α-(methylsulfonyl), 4550¹
- C₈H₈O₆ Caffeic acid methyl ester 4436¹
- C₈H₈AlNO₄ + 11H₂O Asanilic acid, α acetyl β-iodo- 92¹
- C₈H₈AN₂O 5-Benzimidazolecarboxylic acid 2,3 d hydro-2 keto-1 methyl, P 714¹ P 1849¹
Carbazonitrile, 3 azono 2 hydroxy, P 1950¹
- C₈H₈AsO₄ Benzenearsonic acid, β acetyl, P 3761¹
- C₈H₈AsNO₄ Acetic acid, (β-aminophenylarseno), HCl, P 2155¹
- C₈H₈AsNO₅ Acetic acid, (3-amino-4 hydroxy phenylarseno) (1) P 2155¹
- C₈H₈Br₂ 1-benzyl-1,1-dibromide, 4220¹
- C₈H₈Br₂ Benzene, (β bromoethyl), 4240¹
α-lylene α-bromo-, 5134¹
- C₈H₈BrClNO Ketone, 4 bromo-3 5-dimethyl 2-pyrryl chloromethyl, 3099¹
- C₈H₈BrMgO p-Methoxybenzylmagnesium bromide, 2126¹
- C₈H₈BrNO₂ Acetanilide, 2 amino-4-bromo, and HCl, 4265¹
- C₈H₈BrNO₂ p Phenetidine 2 bromo-6-nitro-, 1817¹
- C₈H₈BrO Phenetole, p-bromo-, 2706¹
Xylenol, bromo-, P 4012¹
- C₈H₈BrO₂ Benzene, 1 bromo-2,5-dimethoxy, 4537¹
- C₈H₈BrO₃ α, α' m Xylenediol, 5-bromo-2 hydroxy, P 974¹
- C₈H₈BrO₄ Benzenesulfonic acid, 2 bromo-4,5-dimethoxy, 2721¹
m Toluene sulfonic acid, 5-bromo-4-hydroxy, Me ester 3322¹
- C₈H₈BrNO₂ Phenetidine, dibromo-, 286¹, 286¹, 1817¹ and HCl, 286¹
- C₈H₈CoO₄ + 2H₂O Cerotartaric acid, 1750¹
- C₈H₈Cl₂ m Xylene, 2-chloro-, P 244¹
- C₈H₈ClH₂ p-Xylene, 2 (chloromercuri), 937¹
- C₈H₈ClMgO p-Methoxybenzylmagnesium chloride, 2126¹
- C₈H₈ClNO Ethoxybenzenediazomium chloride, 4797¹
- C₈H₈ClNO₂ 2 Pyridinecarboxylic acid, 4-chloro-, Et ester, 2429¹
- C₈H₈ClNO₂ p Phenetidine, 3-chloro-2-nitro-, 2707¹
- C₈H₈ClN₂S Urea, α (p-chlorophenyl) β methyl thio-, 104¹
- C₈H₈ClN₂S See Methylthio red
- C₈H₈ClNO₂ 1,2 3 Benzotriazole 1 methyl 6-nitro-, methochloride, 1250¹
- C₈H₈ClO Phenetole p-chloro-, 2706¹
- C₈H₈ClO Benzyl alcohol, 5-chloro-2 hydroxy 3 methyl, P 974¹
- C₈H₈ClO₂ α α m Xylenediol, 5-chloro-2 hydroxy, P 971¹
- C₈H₈ClO₃ 1 Phenol 2 sulfonyl chloride, 4 6 dimethyl 691¹
2 4 Xylenesulfonic acid 3-chloro-, P 2441¹
- C₈H₈ClO₄ Phenetole, β-iodo-, dichloride, 4215¹
- C₈H₈Cl₂N₂ 2 4 Xyldine, 3 5-dichloro-, P 973¹
- C₈H₈Cl₂NO₂ 2 4 Xylenesulfonamide, dichloro-, P 2111¹
- C₈H₈Cl₂P Phosphane, dichloro-2,5-xylyl, 2702¹
- C₈H₈Cl₂N₂ Pyridine, 3-sec butyl 2,4,6 tri chloro-, 2697¹
- C₈H₈FN₂S Urea α (p-fluorophenyl) β methyl thio-, 4681¹
- C₈H₈FO₃ Xylenesulfonyl fluoride, hydroxy, 284¹
- C₈H₈IN₂O₂ 2 Pyridinecarboxylic acid, 4-iodo-, Et ester, 2129¹
- C₈H₈N₂ Aniline, α-vinyl, 4866¹
Phenethylidenamine, 1810¹
Pyridone, 6 7-dihydro-, 4883¹
Toluidine, and HCl, 4797¹
- C₈H₈NO (See also Anisamide)
Acetophenone, oxime 1506¹, 3329¹
—, amine, 2445¹, 4452¹
Pyridine 2-ol 6,7-dihydro-, 1883¹
3(7) Pyridinolone, 5 6-dihydro-, 1520¹
α-Toluamide 2134¹
- C₈H₈NO₂ Acetanilide, hydroxy, 2709¹
Acetophenone, α-hydroxy, oxime, 3500¹
Anisaldehyde, oxime, 1506¹
Anthranic acid, Me ester, 3620¹
Glycine p phenyl, 626¹ alkali metal salt, 3099¹

- Toluic acid, amino-, 303⁷, 1501⁶, 1502⁶ 5516⁷
- p*-Toluenesulfonamide, *O*-methyloxime, 833⁶
- C₈H₉NO₂ Compd., m 33⁷, from Ph¹Al¹ and 2 bromoethanesulfonfyl chloride, 3404⁶
- C₈H₉NO₂ Acetic acid, (*o*-aminophenoxy) salts 3346¹
- Acetophenone, 2,4-dihydroxy-, oxime, 1506⁶
- Anisole, 2 methyl 5-nitro-, 2134¹, 4245¹
- Cresotic acid, amino-, P 471⁷
- Nicotinic acid, 6-hydroxy-, Et ester 4285⁶
- p*-Nethylethyl alcohol, *o*-nitro-, 4866⁶
- Phenolate, *p*-nitro-, 2706¹
- Phenol, 2 ethyl 4-nitro-, 5410¹
- Pyrolocarboxylic acid, acetylmethyl 306⁷ 3008¹
- 2 Pyrolocetylonylic acid, 3,3-dimethyl 1008⁷
- Resacetophenone, oxime, 3590¹
- o*-Resorcyaldehyde, 1 methyl oxime 288⁶
- Toluic acid, aminohydroxy 503 3325⁶
- o*-Vanillin, oxime, 3590¹
- Xylenol, nitro-, 930¹, 2424¹
- C₈H₉NO₃ Benzenesulfonamide *o*-formyl *N*-methyl, 928¹
- C₈H₉NO₃ Gallacetophenone oxime 3500¹
- C₈H₉NO₃ Benzenesulfonamide acid, nitro- Et ester, 2703¹
- C₈H₉NO₃ 3-Benzoethanol, 3 (amino methyl) 5-dioxide 39⁷
- C₈H₉NO₃ Compd., m 96 3¹ from nitration and acetylation of Me furate, 1825⁷
- C₈H₉N₃ *o*-Toluidine thio-, 1810¹
- C₈H₉N₃O₂ 5-Benzoethanol, 2 keto-1 methyl, P 4295⁷
- C₈H₉N₃O₂ 2 Pyrolocetaldehyde 4 cyano 3 5 dimethyl oxime 69⁷
- Pyroloc[2,3-*b*]pyridazine-4(5)-one 2 7-di methyl, 3003¹
- C₈H₉N₃O₂ Semicarbazide 1 benzoylthio- 498¹
- C₈H₉N₃O₂ Glyoxyloxyhydrazide *o*-phenyloxime 1490⁷
- Isomocotinamide \ (carbamylmethyl) 3000¹
- Nicotinamide, \ (carbamylmethyl) 2999⁷
- Pycolinamide \ (carbamylmethyl) 2999⁷
- Pyroloc[3,4-*b*]pyridazine 1 4 dione 2 3-dihydro-5 7-dimethyl, 1826¹
- Pyruvic acid 3 pyridylhydrazine, 334⁷
- C₈H₉N₃O₂ Aniline, *N*, *N*-dimethyl 3 4-dinitro- 4534¹
- Butyromonile *o*,*o*-diketo-, dioxime di Ac dene 3621⁶
- C₈H₉N₃ Benzenesulfonamide 2 guanido-, 3089⁷
- C₈H₉N₃O₂ Isocaffeine, 8-oxime- 3966⁶
- C₈H₉ (See also Benzene, ethyl Xylene) 1 Heeren 5-one, 4-vinyl (?) 3309⁷
- C₈H₉As₂NO₂ Acetylarsone 140¹, 253¹, 1⁷61⁷ 1902¹
- Givone *N* (*o*-arsophenyl) 4863⁶
- C₈H₉As₂NO₂ Carbamic acid 5-arsono-2 hydroxy, P 1950⁶
- C₈H₉As₂N₃NaO₂ See Trypanamide
- C₈H₉BN₃O₂ Boric acid, (*m*-methoxyphenyl) 1227⁶
- C₈H₉Br₂Co₂O₂Se + 5H₂O Barium salt of cobalt complex of mercaptosulfonic acid, 77⁶
- C₈H₉Br₂N Phenethylamine, *m* bromo-, salts 4852¹
- 3,4 Xylidene, 6-bromo-, 694⁶
- C₈H₉Br₂NO *o*-Anilidine, 4 bromo 5-methyl, 1225¹
- C₈H₉Br₂NO₂ Benzenesulfonamide, 2 bromo-4,5-dimethoxy, 2724⁶
- C₈H₉Br₂Si Benzene, *p* bis(methylmercapto) tetrahydride 5393
- C₈H₉Cl₂N Phenethylamine *p*-chloro 2194¹
- Pyridine 6-chloro-2 3 4 trimethyl 3632¹
- 2 4 Xylidene 3 and 5 chloro-, P 0⁷3⁶
- C₈H₉Cl₂NO *o*-Phenethidine 4-chloro P 1844⁶ P 3666⁶
- C₈H₉Cl₂NO₂ 2 4 Xylenesulfonamide 3-chloro P 2441⁶
- C₈H₉Cl₂NO₂ Pyrimidine, 2 (*o*-chloroacetamidol 4,5-dimethyl 1254¹
- C₈H₉Cl₂NO₂ Pyrimidine 2 3 4 6-tetrachloro-5 5-dimethyl 2 5-dihydro- 269⁷
- C₈H₉Co₂K₂O₂Si + 5H₂O Potassium salt of cobalt complex of mercaptosulfonic acid 77¹
- C₈H₉FN Benzenesulfonamide 6-nitro- *N*-methyl and HCl 925¹ 928¹
- C₈H₉HgO₂Se Benzenesulfonamide *p* ethyl mercaptomerapto) 1821⁶ 490⁷
- C₈H₉INO 2(1) Pyridone 5-iodo-1 isopropyl 953⁶
- 2(1) Pyridone 5-iodo-1 propyl, and HCl 953⁶
- C₈H₉NO₂ Acetanilide *o*-amino- 1504¹
- Anilic V V dimethyl *p* nitroso 565 6016¹
- o*-Toluidine *p*-hydroxy HCl P 5512¹
- o*-Toluidine hydrazide 1821¹
- p*-Toluidine V methyl V nitroso- 2365¹
- Xylidine nitroso-, P 3359¹ P 4135¹
- C₈H₉N₃O₂ Urea *p* amylthio- 4242¹
- Urea (*p*-methylmercaptophenyl), 936¹
- C₈H₉N₃O₂ Acetanilide, 4 amino 2 hydroxy, HCl, 1249¹
- Anilic *N*, *N* dimethyl 3(and 4) nitro 4534¹
- Anisaldehyde 3 amino oxime 3325¹
- Benzoic acid *o*-hydroxy- Me ester 2097¹
- Nicotinamide, 1 2 dihydro 2 keto 4 6 dimethyl, 1829¹
- Phenethylamine *p* nitro- 2194¹ and salts 4852¹
- 2 4 Quinoxalinediol, 1 2 3 4 tetrahydro 1504¹
- C₈H₉N₃O₂ Carbamic acid *N* [(5 keto-3 methyl 2(5) pyridene)methyl] Me ester, 10¹
- 2(1) Pyridone, 1 isopropyl-5-nitro-, 9a3⁶
- o*-5-nitro-1 propyl, 953⁶
- 3 Pyrolocarboxylic acid, 2 acetyl 5-methyl oxime, 3008¹
- C₈H₉N₃O₂ Sulfamic acid, (*p* acetanidophenyl) Na salt, 2703¹
- Sulfamic acid V glycol, 4288⁶
- C₈H₉N₃ Benzoethanol, 1 amino-2 methyl, P 968¹
- C₈H₉N₃Se Urea (*p*-methylmercaptophenyl) thio-, 936¹
- C₈H₉N₃ 1,2 3-Benzotriazole, 4 amino-1,6-di methyl 1230⁷
- C₈H₉N₃O₂ 1,2 3 Benzoethanol, 5 amino-1 6-di methyl, 3-oxide, 4266¹
- 4 3 Pyrolocetylol 1(2) one, benzene barone, 1821⁶
- C₈H₉N₃O₂ (See also Coffric) Cryogeno 5878¹
- Pyridazolo[4,5-*b*]pyridazine 1,4(2 3) dione, 6,7-d hydro 5 8-dimethyl, 1826⁶
- C₈H₉N₃O₂ Urea acid 9-propyl 8-thio-, 3966⁷
- C₈H₉N₃O₂ Theobromine, 8-methoxy, 1802⁶
- Tiazene, 3 - methoxy 3 methyl - 1 - (*p*-nitrophenyl) 5406¹
- Urea acid, trimethyl, 1802¹, 4297¹

C₈H₈N₂O₃ Pseudouric acid, 9-allyl-8-thio-, 3966¹

C₈H₈N₂O₃ 5,5'-bis-robiquantone 1,3,3-trimethyl 3967¹

C₈H₈N₂O₃ Dimethylamine picrate "Q" 2626¹

Ethylamine picrate "Q" 2626¹

C₈H₈N₂O₃ Dimethylamine styphate "Q" 2626¹

Ethylamine styphate "Q" 2626¹

C₈H₈N₂O₃ Brufen phenyl 2,6-dithio- "Q" 2626¹

C₈H₈O (See also Phenethyl alcohol Phenethyl Xylolol)

Anisole methyl 1134¹ 2718¹ 2980¹

3323¹ 3974¹

Benzyl alcohol α-methyl 265¹ 304¹

2130 P 3016¹ P 51¹

α,γ-Octalinaldehyde, 6α 582¹ and 6α-HSO₂ compd 580¹

Phenol p-ethyl P 119¹

C₈H₈O₂ m-Tolylmercaptan 4-methoxy 2127¹

C₈H₈O₂ (See also Benzene dimethoxy 1-oxa-Pole)

Butanone (2-furyl) 513¹ 1245¹

Cresol, 3,4- 39¹

1,2-Ethanedithiol phenyl 427¹

Ethanol 2-phenoxy 1224¹

Isocresol 397¹

2,5-Octadione 2 "diol" "4" α,γ-Octalimide acid and salts 683¹

Phenol m-methoxy 540¹

Resorcinol 2,5-dimethyl 541¹

C₈H₈O₂ 3-Furanethoxylic acid 2-methyl Et ester 1245¹

Phenol dimethoxy 303¹ 70¹ 5423¹

Pyrogallol 5-ethyl 270¹

Pyromuric acid Et ester 3845¹

C₈H₈O₂ Benzenesulfonic acid Et ester 2¹ 00¹

m-Toluenesulfonic acid 4-methoxy 2127¹

C₈H₈O₂ 3-Benzenesulfonic acid p-methoxy Me ester 332¹

Toluenesulfonic acid hydroxy, Me ester 3323¹

2,4-Xylenesulfonic acid 6-hydroxy 930¹

C₈H₈O₂ Xylenesulfonic acid 4-hydroxy, Na salt 691¹

C₈H₈O₂ Methoxycarbonyl Me Ph ester 454¹

C₈H₈O₂ 1,2,3,3-Bisacetoxyacetic acid 1403¹

C₈H₈NaO₂ Carbanilamide 5-arsono 2,3-dioxy P 1950¹

C₈H₈BrN₂O₂ Barbituric acid 5-hydroxy-5-butyl 5400¹

C₈H₈BrO Cyclohexanol 1-bromomethyl 73¹ P 711¹

C₈H₈BrO₂ Glutaric acid β-benzo-α-hydroxy α,γ-trimethyl lactone 2125¹

C₈H₈ClN₂O₂ Lithanesulfonic acid 1-chlorophenylhydrazide 2925¹

C₈H₈ClO₂ See Chloralose

C₈H₈ClO₂ See Uracilic acid

C₈H₈Co₂KO₂S₂ + 4H₂O Potassium salt of cobalt complex of mercaptosuccinic acid "7" 4483¹

C₈H₈IN₂ Pyridine 5-iodo-2-isopropylamino- P 2245¹

C₈H₈IN₂ (See also Aniline N,N-dimethyl Aniline N-methyl)

Benzylamine, N-methyl 5935¹

Δ-Cyclopentamethylenetriole methyl, 4234¹

Phenethylamine, 1551¹, 1510¹ 2¹ 00¹ salts 3406¹

Pyridine base, b 155-50¹ and salts, 3651¹ 38-24¹

Xylidine, P 1-651¹ 1501¹, P 2157¹ 5905¹

C₈H₈NO (See also Phenethylamine Tyramine)

2,6-Acetoxylic acid, hydroxy, P 215¹

Benzyl alcohol α-(aminomethyl), 1240¹, 1551¹

1-Butanone, 1 (2-pyrryl), 145¹

Ketone propyl 2-pyrryl, 2484¹

2,6-Lutidine 4-methoxy, 515¹

α,γ-Octalinaldehyde oxime, 683¹

α,γ-Octalimideamide 683¹

Phenethyl alcohol, amino, 1510¹ 4568¹

Phenol p-dimethylamino, 503¹

2-Pyridol 4,5,6-trimethyl, 3552¹

4(1) Pyridone, 1,2,6-trimethyl, 515¹

2-Pyridolaldehyde 5-ethyl 3-methyl, 3358¹

Xylolol amino- 930¹ 2124¹

C₈H₈NO₂ m-Phenethyl mercaptan 8-amino-, P 1093¹

C₈H₈NO₂ Aniline 3,5-dimethoxy-, and salts, 1516¹

Ketone 5-hydroxy 2,4-dimethyl 2-pyrryl methyl 4009¹

Maleimide methylpropyl 3009¹

Pyrocatechol 4-(aminomethyl) 2190¹

1-Pyridolacetic acid Et ester 1521¹

2-Pyridolpropionic acid 5-methyl, 3847¹

Tyramine hydroxy 3193¹

C₈H₈NO₂ Benzyl alcohol α-(aminomethyl) 3,4-dihydroxy 1000¹

C₈H₈NO₂ Xylenesulfonamide hydroxy 284¹

2,5-Xylenesulfonic acid 4-amino- 2703¹

C₈H₈NO₂ Glutaric acid α-cyano-β-γ-dimethyl, 1503¹

C₈H₈N₂NaO₂ Sodium barbitol 4237¹

C₈H₈N₂ Propionaldehyde 3-pyridylhydrazine 3344¹

Quinoxaline 2-amino 5,6,7,8-tetrahydro- 1254¹

C₈H₈N₂O See Mannin

C₈H₈N₂O₂ Histidine N-glycolyl 5180¹

C₈H₈N₂S Semicarbazide, thio 4-p-olyl, and HCl 1223¹

C₈H₈N₂S Biguanide, phenyl sulfide, 2121¹ 2322¹

C₈H₈N₂O₂ Burea, 1-amino- 3534¹

Isocyanthine, 2-allyl-5-nitroso- NH₂ salt, 3966¹

C₈H₈ Compd b 110-20¹ from brown-coal gas benzene 3163¹

Polymer b 110-5¹, from MeCl₃ C Cl₄ 911¹

C₈H₈AsNO₂ Arsanilic acid, γ-β-hydroxyethyl P 3139¹

α-Arsanilic acid, γ-β-hydroxyethyl, 4563¹

3,5-Xylenesulfonic acid α-amino-4-hydroxy, P 714¹

C₈H₈BrNO₂ Proline 1 (α-bromopropionyl), 77¹

C₈H₈ClN₂ Pyrimidine, 4,6-dichloro-5,5-dimethyl 2,5-dihydro- 2697¹

C₈H₈ClO₂ 3-Hexeno-2,5-diol, 1,6-dichloro-2,5-dimethyl, 4525¹

C₈H₈CoO₂ + 3 H₂O Cobalt complex of HSCCH₂CO₂ 71¹

C₈H₈Et₂N₂O₂ 3589¹

C₈H₈N₂ α,γ-Octalinaldehyde hydrazine, 683¹

p-Phenylenediamine dimethyl, 270¹, 5772¹

C₈H₈N₂O 2(1) Pyrazolone 3,4-dihydro-1,4,6-trimethyl 3-methylene- 2431¹

Pyrrrole 2-acetate do-2,4-dimethyl, 861¹

C₈H₈N₂O₂ Compd α 195¹ from 2,4-dimethyl-3-propylpyrrrole 3009¹

2(1) Pyrazolone 4-ethoxy 1,5-dimethyl, 84¹

- 2,5 Pyruolopyrazone 1,4 dione 2,3,6,7
5,8a hexahydro 2 methyl, 77⁺
Urea (ketocyclohexylidenemethyl) 1254⁺
C₇H₁₀N₂O₂ See *Bakhtol*
C₇H₁₀N₂O₂ Carbamic acid, acetylencarba- do Et
ester 279⁺
3 Hydantoinacetic acid Fr ester 4225⁺
C₇H₁₀N₂Se₂ Hexane, 1,6-d selenocycano- 1521⁺
C₇H₁₀N₂O Carbonylhydride α tolyl 3633⁺
Ketone, methyl 5-methyl 2 pyrrol penum
carbazone 3005⁺
C₇H₁₀N₂O₂ Nitulose V glycol, 5180⁺
C₇H₁₀O Norcamphor 3 methyl 3647⁺
C₇H₁₀O₂ Δ¹ Cyclohexenone 3 hydroxydi
methyl 3319⁺ 5112⁺
Δ^{1,2} 1,2 Cyclopentadienediol 3 5 5
trimethyl (?) 2121⁺
1,2 Cyclopentanedione 3 3 5 trimethyl
(?) 2121⁺
Δ^{1,2}Cyclopenteneacetic acid α-methyl 280⁺
C₇H₁₀O Anhydrodihydroxyhexanone acetate
483⁺
C₇H₁₀O₂ Compd from caryophyllene 2988⁺
Crotonic acid β hydroxy Et ester acetate
5394⁺
Cyclohexanedicarboxylic acid 3332⁺
Glutaric acid α hydroxy α methyl
γ lactone Et ester 53⁺
Succinic acid (β hydroxy α methylpro-
pyl) γ lactone, 70⁺
— (α-methylpropenyl) 70⁺
— (α-methylpropylidene) 70⁺
C₇H₁₀O Oxalacetic acid di Et ester 3061⁺
C₇H₁₀O₂ Butanetricarboxylic acid methyl
82⁺, 1803⁺
C₇H₁₀O₂Pb See *Lead acetates*
C₇H₁₀Ag 1 Pentose, 2-ethyl-3 methyl Ag der-
iv 3390⁺
C₇H₁₀BrN₂O₂ Alanine, N (N (α-bromopro-
pyl)glycyl), 2741⁺
C₇H₁₀BrO₂ 1 Pentun 3 ol, 1 bromo 3 4 4
trimethyl, 73⁺
C₇H₁₀Br₂O₂ 2 Octanone 1 tribromo- 71
C₇H₁₀IN₂ Dimethylphenylazonium iodide
2982⁺
C₇H₁₀N Pyrrrole 1 butyl 951⁺
Pyrrrole, 2 methyl-4 propyl 3010⁺
C₇H₁₀NO 1 Pyrrrolethanol α α-dimethyl 1826⁺
Tropaeone 1290⁺
C₇H₁₀NO₂ Arecoline 1902⁺ 4621⁺ 5004⁺
Glutaramide α ethyl β methyl, 1803⁺
— α, β γ trimethyl 82⁺
Succinamide N butyl 1521⁺
C₇H₁₀NO₂ N-pecotic acid 4 keto- Et ester
and HCl 4268⁺
C₇H₁₀N₂O Semicarbazone α 221⁺ of ketone
from brown coal tar 2463⁺
C₇H₁₀N₂O₂ 4,6(1 5) Pyrimidinedione 5 5-
diethyl 2 3 dihydro-2 amino- 2697⁺
C₇H₁₀N₂O₂ Aspartic acid N (N glycyglycyl)
4018⁺
C₇H₁₀N₂O₂ Nendymium hydriacetate 5858⁺
C₇H₁₀O₂Sm Samarium hydroacetate 5858⁺
C₇H₁₀ 1 Octene 71⁺
1 Pentene, 3 ethyl 3 methyl 5890⁺
C₇H₁₀BrNO₂ Norval pe, V (α-bromopropionyl),
493⁺
C₇H₁₀ClNO₂ Leucine, V-chloroacetyl, 305⁺
C₇H₁₀ClNO₂ Glucosamine, A-chloroacetyl,
1805⁺
C₇H₁₀Cr₂O₂ Chromium acetate basic 4480⁺
C₇H₁₀HgN₂O₂ Acetamide, V amyl-α-cyano-α
(hydroxymercapto), 2619⁺
C₇H₁₀INO₂ Cyclohexanecarbamic acid 2 iso-
Me ester, 3617⁺
C₇H₁₀N₂ Pyrazine, 2 5 dihydro 2 2 5 5
tetramethyl and chloroplatinate 4271⁺
C₇H₁₀N₂O₂ Acetamide N amyl-α-cyano- 3619⁺
C₇H₁₀N₂O₂ Alanine N propyl 1487⁺ 2974⁺
Proline (alanil) 77⁺
2-Pyrrolidonecarboxamide 1 α hydroxy
propionyl 77⁺
C₇H₁₀N₂O₂ Malonic acid carbamido- di Et
ester 910⁺
C₇H₁₀N₂O₂ See *Glutathione*
C₇H₁₀N₂O₂ 5 Imidazolecarboxamide 4 di
methylamine N 1 dimethyl and
salt 5894⁺
C₇H₁₀N₂O₂ Ureidine tetramethyl 5894⁺
C₇H₁₀N₂O₂ 4 Imidazolecarboxamide 4
ethylaminoctetrahyl 2 5 di keto
N 1 dimethyl, 396⁺
C₇H₁₀N₂O₂ Asparagine asparagyl 5905⁺
Asparagine N (N glycyglycyl) 4018⁺
Glycine V (N asparagylglycyl) 4018⁺
— N (N glycyglycyl) 4018⁺
C₇H₁₀N₂O₂ 1 2 3 Butanetriolone 1 amino-
triolone N₂ deriv 3622⁺
C₇H₁₀O Cyclooctanone 3972⁺
Ether Δ¹ cyclohexenyl ethyl 971⁺
α Heptenaldehyde α-methyl 5140⁺
Heptanone methyl 939⁺ 121⁺ 3312⁺
Δ² Hexenone 3 4 dimethyl 3312⁺
1 Hexo 3 of 3 4 methyl 3312⁺
9 Oxabicyclo[6 1 0]nonene, 3972⁺
C₇H₁₀O₂ Caproic acid α ethyldene 5394⁺
Cyclopentanecarboxylic acid 3 methyl 4234⁺
3 5 Octanedione 1502⁺
Pentose acid β ethyl α methyl, 4524⁺
C₇H₁₀O₂ Acetoacetic acid α, α-dimethyl Et
ester 493⁺ 2694⁺
Acetoacetic acid α ethyl Et ester, 82
910⁺
Caproic acid β keto- Et ester 3010⁺
Dihydro deriv bu 95⁺ of acetate of anhy-
dride of 5 6-dihydroxy 2 hexanone 458⁺
Hexanone hydroxy acetate 483⁺
Levulonic acid monopropyl ester 4594⁺ 5293⁺
Fr ester 496⁺ 5393⁺
4 Pyranecarboxylic acid tetrahydro- Li
ester 681⁺
Valeric acid, α β epoxy β-methyl, Et ester
71⁺
C₇H₁₀O₂ Glutaric acid, ethylmethyl, 1803⁺
564⁺
Glutaric acid β-propyl 3684⁺
— α β γ trimethyl 1803⁺
Malonic acid ethylpropyl, 5664⁺
—, methyl di Et ester 82⁺ 919⁺ 3620⁺
Oxalic acid diisopropyl ester 5892⁺ di Fr
ester, 5892⁺
Suberic acid P 177⁺ 1501⁺, 5604⁺ V₂ salt
5933⁺
Succinic acid di Et ester, 1797⁺, 1⁺ 98⁺
—, α β-dimethyl, 5664⁺
— tetramethyl, 6664⁺
C₇H₁₀O₂ Arabinolactone trimethyl, 277⁺
1223⁺, 1223⁺ 5813⁺
Ethanol 1,1 -oxybis-, diacetate P 3666⁺
Glutaric acid, β hydroxy-α α γ trimethyl,
2121⁺
Lactonolactone trimethyl-, 1223⁺
Prepared methyl, diacetate, 916⁺
2693⁺ A
Xylonolactone, trimethyl, 277⁺, 1222⁺
C₇H₁₀O₂ Compd from xylan, 4853⁺

- C₈H₁₃O₅S Glucoside, α-ethylthio-, 4232¹
 C₈H₁₃O₅ Galactoside, α-ethyl-, 1708²
 Glucoside, methyl 6-Me ether, 4230¹ *
 — 3 methylmethyl, 5666¹
 * Monomethoxymethylketoside from α-methoxybutyryldehyde and CO(CH₂OH)₂, 1223
 C₈H₁₃Br Heptano-, 1 bromo-3 methyl-, 3627¹
 Octane 1 bromo- 5322¹
 C₈H₁₃BrNO₂ β, γ Dibromopropyltrimethylammonium acetate, P 2814¹
 C₈H₁₃ClO 1 Octanol, 8-chloro-, 5395¹
 C₈H₁₃IMg Octylmagnesium iodide, 3959¹
 C₈H₁₃N Coarse, 3667¹
 Cyclohexylamine, N ethyl-, P 964¹ 1809
 Isobutylamine P 3359¹
 Pyrrolidine 1 butyl-, and chloroacetate 951¹
 C₈H₁₃NO Capenamamide N N dimethyl 2972¹
 Caprylamide 2972¹
 Enanthamide β methyl-, 3627¹
 Ethylene oxide β d methylamino α α dimethyl 4271¹
 3 Hexanone, 6 dimethylamino 4523¹
 Isovaleraldehyde α (dimethylaminoethyl) P 2734¹
 Isovaleramide α isopropyl 1219¹
 2 Octanone oxime 5323¹
 C₈H₁₃NO₂ Butyric acid, γ dimethylamino Et ester, 1218¹ 4525¹
 Butyric acid, β-ethylamino- Et ester and HCl 2117¹
 Caproic acid α (α-aminoethyl)-, and HCl 5394¹
 —, α-dimethylamino-, and salts 1219¹
 Isoleucine, Et ester 2415¹
 Isovaleramide α hydroxy α isopropyl 3660¹ 3605¹
 Leucine Et ester, HCl 490¹
 Propionamide, β isomeric 4549¹
 C₈H₁₃NO₃ Cyclohexanesulfonamide N ethyl-, 1812¹
 C₈H₁₃NO₃ Aspic acid dimethylamino acid salt, 1218¹
 C₈H₁₃NO₃ Arsonamide trimethyl 4224¹
 C₈H₁₃NO₃ Valerimidic acid α hydroxy α propyl-, monoamide with H₂SO₄ No salt, 5695¹
 C₈H₁₃ (See also Octane)
 Butane, 2 2 3 3 tetramethyl 1717¹
 Hexane, 2 4-dimethyl 4845¹ 5137¹
 Pentane, 2 2 4 trimethyl-, 1717¹ 3562¹
 C₈H₁₃AuBr Dibutylgold bromide 4220¹
 Diisobutylgold bromide 4220¹
 C₈H₁₃AuCl₂NO 1 + β Hydroxyethyl 1 methylpiperidinium chlorosulfate 1814¹
 C₈H₁₃AuCl₂NO₂ Chlorine, propionyl-, chlorosulfate 3315¹
 C₈H₁₃BrNO₂ β Isomethyltrimethylammonium propionate P 2814¹
 C₈H₁₃Se₂ *tert* Butyl selenocapran Hg deriv., 3618¹
 C₈H₁₃Mg Magnesium dimethyl 1218¹
 C₈H₁₃N₂ Butane 2 2 isobromo- 2416¹
 Pispazine, 2 3 5 5 tetramethyl-, and HCl, 4272¹ *
 C₈H₁₃N₂O 2 - Propanol 1 amine 3 - (1 piperidyl)-, P 1259¹
 C₈H₁₃N₂O₃ Taurine, N leucyl 492¹
 C₈H₁₃N₂ Subaramine, di HCl 5665¹
 C₈H₁₃N₂S Pseudococaine 7,7 hexamethylenebis [thio-, HCl, 5665¹
 C₈H₁₃O (See also Butyl ether)
 Heptanol, methyl-, 1217¹, 3312¹, 3627¹, 4845¹ 5830¹
 2 Hexanol dimethyl-, 3312¹ 4845¹
 Isobutyl ether P 302¹
 Octanol, 4846¹ 5830¹
 Octyl alcohol 2700¹ 4223¹, 5322¹, 5830¹
 C₈H₁₃O₂ Butyraldehyde di Et acetal, 1708¹
 1,8 Octanediol, 1798¹
 C₈H₁₃O₂S Sulfide bis(β ethoxyethyl) 2114¹
 C₈H₁₃O₂S₂ 1 Butanesulfonic acid, thiol-, Bu ester 1812¹
 C₈H₁₃O₂ Ethanol 2 (β butoxythio) 5335¹
 Isobutyraldehyde α-hydroxy di Et acetal, 2112¹
 Orthoacetate acid tri Et ester 2976¹, 5828¹
 1 2 Propanediol 3 isomeric, 916¹
 C₈H₁₃O₂S₂ Butylsulfite 1797¹
 C₈H₁₃O₂S₂ Hydroacrylaldehyde α methoxy di Et acetal 1223¹ 5402¹
 1 Propanol, 3 methoxy 2 2 bis(methoxy methyl) 1801¹
 C₈H₁₃O₂S₂ See Triacetyl
 C₈H₁₃S Butyl sulfide 5084¹
 Isobutylsulfide 1663¹ 5094¹
 Octyl mercaptan 75¹
 C₈H₁₃N₂O Butylamine H₂S salt 4219¹
 Iseptylamine γ methyl 3627¹
 Octylamine salts 70¹
 C₈H₁₃NO₂ Chlorine acetylmethyl 1587¹
 C₈H₁₃Au₂Br₂ Diethylgold bromide 1218¹
 C₈H₁₃BrN₂ Tetraethylammonium bromide 2626¹
 C₈H₁₃ClN₂ Tetraethylammonium chloride 2626¹
 C₈H₁₃ClNO₂ Tetraethylammonium perchlorate 2351¹ 2626¹
 C₈H₁₃Cl₂MoO₄ 889¹
 C₈H₁₃Cu₂N₂Na₂O₂ Oxamide N ethyl Na Cu deriv., 497¹
 C₈H₁₃PNF 1754¹
 C₈H₁₃O₂ Germane tetraethyl-, 70
 C₈H₁₃N₂ Tetraethylammonium iodide 2351¹ 2626¹ 3038¹
 C₈H₁₃N₂ Hydrazine, *s* di sec butyl-, and hydrochloride 2419¹ 2416¹
 Putrescine, N N N N tetramethyl and salts 1218¹ 2691¹
 C₈H₁₃N₂O₂ Propionaldehyde β (α methylhydrazone)-, di Et acetal 4237¹
 C₈H₁₃N₂O₂ Tetraethylammonium nitrate 2351¹, 2626¹
 C₈H₁₃N₂S₂ Diethylamine N N diethoxy P 1538¹ 4853¹
 C₈H₁₃N₂S₂ Diethylamine N, N triethoxy- 4853¹
 C₈H₁₃O₂Si Ethyl orthosilicate 1485¹
 C₈H₁₃O₂S₂ Ethyl stannate, 1177¹
 C₈H₁₃O₂Ti Ethyl titanate 2971¹
 C₈H₁₃O₂P₂ Ethyl pyrophosphate and deriv., 3618¹ *
 C₈H₁₃O₂P₂ Ethyl hypophosphate 3618¹ *
 C₈H₁₃O₂P₂S₂ Compd. b. 147 5-8 5°, from tetra Et hypophosphate and S 3618¹
 C₈H₁₃O₂P₂ Ethyl pyrophosphate, 3618¹
 C₈H₁₃Pb₂ See Plumbum tetraethyl
 C₈H₁₃Si Silicane tetraethyl-, 1485¹
 C₈H₁₃Sn₂ Stannane, vinylenebis(trimethyl-, 70¹
 C₈H₁₃ClN₂ Trimethyl(3 methylaminoethyl) ammonium chloride, 2691¹
 C₈H₁₃Br₂NO₂W Monotetramethylammonium aquotetramethylammonium, 2069¹
 C₈H₁₃Cl₂H₂Pd Di 1 2 isobutylammonium-palladium chloride, 5862¹

- C₂H₄.Cl₂N₂Pt Da 1 2 isobutylenediammine platinum chloride 556¹
- C₂H₄.Cl₂N₂PdPt 1 2 Propylenediamine 2 methyl palladium tetrachloroplatinate 556¹
- C₂H₄.Cl₂N₂Pt; 1 2 Propylenediamine 2 methyl platinum tetrachloroplatinate 556²
- C₂H₄N₂ NiO 3 + 4H₂O 1177¹
- C₂H₄.Cl₂MoN₂O 3587¹
- C₂H₄.Br₂.CdCl₂.CoN₂ 5108¹
- C₂H₄.CdCl₂.Co₂I₂N₂ 5108¹
- C₂H₄.CdCl₂.Co₂N₂ 5108¹
- C₂H₄.Cl₂.Co₂CuN₂ 5108¹
- C₂H₄.Cl₂.Co₂N₂Sn 5108¹
- C₂K₂La₂O₄ + 11H₂O Lanthanum potassium oxalate 2658¹
- C₂K₂MoN₂ Potassium molybdenate 2384¹
- C₂K₂Mn₂N₂O₂ 869¹
- C₂K₂MoN₂ + 21H₂O Potassium molybdenate 2384¹
- C₂La₂N₂O₄ + 11H₂O Lanthanum sodium oxalate 2658¹
- C₂H₄.Br₂O Iodone 2 3 6 tribromo- 1237¹ 4235²
- C₂H₄.Ag₂Br₂O Ether propargyl 2 4 6 tribromo phenyl Ag deriv Ag₂O₂ deriv 1815¹
- C₂H₄.Br₂CuO Ether propargyl 2 4 6 tribromo phenyl Cu deriv 1815¹
- C₂H₄.Br₂NO Iodone 2 3 5 tribromo- oxime 1237¹
- C₂H₄.N₂O 2 Iodoacetic acid 5 7-dinitro 3349¹
- C₂H₄.Ag₂Br₂O Ether dibromophenyl propargyl Ag deriv Ag₂O₂ deriv 1815¹
- C₂H₄.Ag₂Cl₂O Ether 2 4 dichlorophenyl propargyl Ag deriv Ag₂O₂ deriv 1815¹
- C₂H₄.Br₂Cl₂N₂ Toluene 3 bromo-5 chloro-4 pentachloroethylazide 4244¹
- C₂H₄.Br₂O Propionic acid (p-bromophenyl) 4235¹
- C₂H₄.Br₂Cl₂NO Oxindole 5 7-dibromo-3 3-dichloro-1 methyl 2937¹
- C₂H₄.Br₂Cl₂N₂ Toluene 3 5-dibromo-4 pentachloroethylazide 4244¹
- C₂H₄.Br₂CuO Ether 2 4-dibromophenyl propargyl Cu deriv 1815¹
- C₂H₄.Br₂NO Iodone 2 3 6 bromo- oxime 1236¹
- C₂H₄.Br₂NO₂ 3 Iodoacetic acid 5 6-dibromo 700¹
- Pseudo salt 5 7-dibromo-1 methyl 2941¹
- C₂H₄.Br₂ Iodone tribromo 739, 1517¹
- C₂H₄.Br₂O Ether propargyl 2 4 6 tribromophenyl 1815¹
- C₂H₄.Br₂Cl₂N₂ Toluene 3 5-dibromo-4 (a,β-dibromo-β-chloroethylazide) 4244¹
- C₂H₄.Br₂NO₂ Anthranilic acid 5 acetyltriazine bromo- 2709¹
- C₂H₄.Br₂O Ether, allyl pentabromophenyl 1815¹
- C₂H₄.Br₂O Ether β γ-dibromopropyl pentabromophenyl 1815¹
- C₂H₄.Cl₂NO₂ 8 Quinolone, 5-chloro-6, 2453¹
- C₂H₄.Cl₂N₂ Thiocyanic acid 5-chloro-2-cyano-methyl ester, P 1250¹
- C₂H₄.Cl₂O₂ 1 Benzofuran-carbonyl chloride 1245¹
- C₂H₄.Cl₂O₂ Thiophthrethione-chloromethyl-, 5165¹
- C₂H₄.Cl₂O₂ 4 Isobenzofuran-carbonyl chloride 1 2-dihydro-1 keto- 3325¹
- C₂H₄.Cl₂NO₂ Isat = 4,5-dichloro-7 methoxy, P 2720¹
- C₂H₄.Cl₂ Iodone, 1,1,3 trichloro-, 739¹
- C₂H₄.Cl₂N₂O₂ Mesoxalic acid, (2,4,6 trichlorophenyl)hydrazide, 5406¹
- C₂H₄.NO₂ 4 Isobenzofuran-nitrile, 1,2-dihydro-1 keto- 3325¹
- C₂H₄.NO₂ 1 2,4-Oxadiazole 3 nitrile, 5-phenyl, 811¹
- C₂H₄.N₂O₂ 2 Iodoacetic acid, 5,7 dinitro, 3349¹
- Strychol, dinitro-, 3349¹
- C₂H₄.Br₂Cl₂NO Oxindole, 5-bromo-3,3-dichloro-1 methyl 2937¹
- C₂H₄.Br₂N₂ Cinnamonnitrile, α bromo-, 1810¹
- Isoquinoline, 4 bromo-, 5427¹
- Quinoline bromo-, and HCl, 5427¹
- C₂H₄.Br₂NO Arctamitrile p bromobenzoyl 505¹
- 6 Quinolone 4 bromo-, 904¹
- C₂H₄.Br₂NO₂ Thiocyanic acid, p bromophenacyl ester 505¹
- C₂H₄.Br₂NO₂ 3 Iodoacetic acid, 6 bromo-, 700¹
- Pseudo salt 5-bromo-1 methyl, 2941¹
- C₂H₄.Br₂NO₂ + 3H₂O Iodoacetic acid 5-bromo-, 1572¹
- C₂H₄.Br₂Cl₂N₂ Toluene, 3,5-dibromo-4 (β,β-dichloroethylazide), 4244¹
- C₂H₄.Br₂O Ether dibromophenyl propargyl, 1815¹
- C₂H₄.Br₂Cl₂N₂ Toluene 3 bromo-4 (α,β-dibromo-β-chloroethylazide), 4244¹
- C₂H₄.Br₂NO₂ Benzoic acid, 3-acetamido-7,7,7 tribromo-4 hydroxy, 2709¹
- Salicylic acid 3 acetamido-7,7,7 tribromo-, 2709¹
- C₂H₄.Br₂O Ether β γ-dibromopropyl 2 3 4 5-tetrabromophenyl, 1815¹
- C₂H₄.Cl₂Br₂N₂ Isoquinoline 4-chloromercury, 5427¹
- Quinolone, chloromercury, 5427¹
- C₂H₄.Cl₂N₂ Quinolone 2-chloro-, 2720¹
- C₂H₄.Cl₂NO Acetonitrile p-chlorobenzoyl, 504¹
- Quinolone chloro- 954¹
- C₂H₄.Cl₂NO₂ Thiocyanic acid, p-chlorophenacyl ester, 505¹
- C₂H₄.Cl₂NO₂ Isatin, 6-chloro-7 methyl, F 1515¹
- C₂H₄.Cl₂O Ether, 2 4-dichlorophenyl propargyl, 1815¹
- C₂H₄.Hg₂O₂ β-Resorcylic acid, 5-(acetoxymercuroyl)-3 (hydroxymercuroyl), 3 4 oxydride, 871¹
- C₂H₄.INO Acetonitrile p iodobenzoyl, 505¹
- 6 Quinolone 4 iodo-, 954¹
- C₂H₄.INO₂ Thiocyanic acid, p iodophenacyl ester 505¹
- C₂H₄.NO₂ Acetonitrile m nitrobenzoyl 504¹
- 3 Iodoacetylde nitro- 700¹
- 1,2 4-Oxadiazole, benzoyl, 3325¹
- C₂H₄.NO₂ Thiocyanic acid m nitrophenacyl ester, 505¹
- C₂H₄.NO₂ 3 Iodoacetic acid 6-nitro-, 700¹
- C₂H₄.NO₂ Benzoic acid, 3 acetamido 4 hydroxy 2 5 6 trinitro-, 2709¹
- C₂H₄.NO₂ 2 Iodoacetic acid 3 5,7 trinitro-, hydrazide 3349¹
- C₂H₄O₂ (See also C₂H₄N₂O₂)
- 1 Benzofuranaldehyde, 1245¹
- Chromone, 515¹
- Propionic acid, phenyl 71¹
- C₂H₄O₂ Umbelliferone, 2386¹
- C₂H₄O₂ Fuculetin, 503¹
- 4 Isobenzofuran-carboxylic acid 1,2 dihydro-1 keto, 3325¹

- Phthalic anhydride, methoxy 3653² 3655⁴
4869⁶
- C₆H₄O₂ Hemimellitic acid 1822²
- C₆H₄O₂ Trimellitic acid 5-hydroxy 291¹
- C₆H₄AgN₂S 2,3-Triazinemercaptan, 4-amino 6-phenyl Ag deriv 1531¹
- C₆H₄Br Indene, bromo- 1517¹
- C₆H₄BrClN₂ Toluene 3-bromo-4-(β - β -dichlorovinylazo), 4244¹
- C₆H₄BrN₂O₂ Pseudo santon 5-bromo-1-methyl 3-oxime 293¹
- C₆H₄BrO Cinnamaldehyde β -bromo 1810¹
- C₆H₄BrN Hydrocinnamamide α - β -dibromo 1819¹
- C₆H₄BrN₂ Oxindole 5,7-dibromo-1-methyl 293¹
- C₆H₄BrNOS Thiocyanic acid phenacyl ester dibromide, 505¹
- C₆H₄BrNO₂ Acetamide α -benzoyl α - β -dibromo 505
- C₆H₄BrNO₂ Benzoic acid 3-acetamido- β -dibromo 4-hydroxy 2709¹
- C₆H₄Br₂ Iodan 1,2,3-tribromo 1517¹
- C₆H₄Br₂O Phenol 2,3,6-tribromo-4-methoxy acetate 4537¹
- Propiophenone tribromo 2,4-dihydroxy 504¹
- C₆H₄Br₂O Ether isopropyl pentabromophenyl 1815¹
- Ether pentabromophenyl propyl 1815¹
- C₆H₄ClN₂O Glyoxime chloro Br deriv 79¹
- C₆H₄ClO₂ Malonic acid α (and β)(chlorophenyl) 2134¹
- C₆H₄ClS Thiophene 5-chloro-3-methyl 516¹
- C₆H₄ClNO Oxindole 3,3-dichloro-1-methyl 293¹
- C₆H₄ClNO₂ Anisole 2-(α - β -dichlorovinyl) 4-nitro 6412¹
- C₆H₄ClN₂O₂ Pyruvic acid (2,4,6-trichlorophenyl)hydrazono 5406¹
- C₆H₄Cl₂O₂ Acetic acid (4,5,6-trichloro- m -tolylmercapto) P 5040¹
- C₆H₄Cl₂O₂ Carboxylic acid β -tolyl trichloromethyl ester 1228¹
- C₆H₄Cl₂NO₂ Acetamide 2,3,5,6-tetrachloro 5163¹
- C₆H₄Cl₂NO₂ Anisole 4- α - β - β -tetrachloroethyl 5412¹
- C₆H₄N (See also Isoquinoline Quinoline)
Cinnamitrile hydrobromides, 3960¹
- C₆H₄NO (See also Quinoline)
3-Iodoaldehyde malic 700¹
- Isoasobutyryl 2727¹
- Propionaldehyde, β -phenyl oxime 1819¹
- α -Tolualdehyde α -cyano 4541¹
- C₆H₄NO₂ Thiocyanic acid phenacyl ester 505¹
- C₆H₄NO₂ Malonamide N-phenyl 2418¹
- Pseudo santon, 1-methyl 294¹
- Quinobenediol P 525¹ 3382² and salts 2728¹
- 2,4(1,3) Quinobedione P 1263¹
- C₆H₄NO₂ 1,4,2-Benzoxaz 2-one, 3-hydroxy 6-methyl 3347¹
- 4-Isobenzofuran-carboxamide 1,2-dihydro 1-eto, 3325¹
- 2,3-Phenomorphanedione 6-methyl, 3347¹
- C₆H₄NO₂ 3,2-Hydroxyisoquinolinum-sulfonate acid cyclic anhydride 4000¹
- C₆H₄NO₂ 3402¹
- Cinnamic acid, nitro, 2143¹
- Styrene, 3,4-methylenedioxy β -nitro-, 5896¹
- C₆H₄NO₂ Acetophenone 4,5-methylenedioxy 2-nitro-, 3324¹
- Ethylene oxide (4,5-methylenedioxy 2-nitrophenyl), 3324¹
- Oxamic acid, α -carboxy, 2148¹
- C₆H₄N₂O₂ 1,2,4-Oxadiazole 3-carboxamide, 5-phenylthio-, 81¹
- C₆H₄N₂O₂ Furan 3-amino-4-benzoyl 3337¹
- 1,2,4-Oxadiazole 3-carboxamide, 5-phenyl, 81¹
- C₆H₄N₂O₂ Benzothiazole 1-acetamido-5-nitro-10¹
- C₆H₄N₂O₂ Thiocyanic acid β , γ -dimethyl phenacyl ester, 2700¹
- C₆H₄N₂O₂ 1,2-Propanediol 3 (2,4,6-trinitrophenoxy) diacetate 3977¹
- C₆H₄ (See also Indene)
Benzene, propargyl 2980¹
- Propadiene phenyl 2980¹
- Propargyl phenyl 2980¹
- C₆H₄AsCl₂NO₂ Malonamic acid β -dichloro-arsyl 5407¹
- C₆H₄AsNO₂ Malonamic acid β -arsinoo- 5407¹
- C₆H₄BrClN₂S Benzothiazole 3-bromo-5-chloro-1-ethylamino- 4881¹
- C₆H₄BrNO Cinnamaldehyde bromo-oxime 1819¹
- Oxindole, 5-bromo-1-methyl 293¹
- C₆H₄BrNO₂ Anisole 2-bromo-4-(β -nitrovinyl) 4532¹
- 2-Pyrrolicarboxylic acid 4-(β -bromovinyl) 5-fenyl 3-methyl 1520¹
- C₆H₄BrNO Anthranilic acid N-acetyl β -bromo 5-hydroxy 2709¹
- Benzoic acid acetamidobromohydroxy 2709¹
- Δ^1 Cyclohexenone 2-acetyl 6-bromo 4-methyl 4-nitro, 2834¹
- Dicarboxylic acid slowly carbonizes above 230¹ from Et 4-(β -bromovinyl) 3,5-dimethyl 2-pyrrolicarboxylate and SO-Cl₂ 1520¹
- Salicylic acid acetamide β -bromo-, 2709¹
- C₆H₄BrNO₂ β -Resorcylic acid 5-acetamido- γ -bromo-, 2709¹
- C₆H₄Br₂Iodan dibromo 1517¹
- C₆H₄Br₂ClO Ether chlorobromophenyl β - γ -dibromopropyl 1504¹ 4245¹
- C₆H₄Br₂ClO Ether β - γ -dibromopropyl 2,4-dichlorophenyl 1815¹
- C₆H₄Br₂ClO Ether 2-chloro 4-iodophenyl β - γ -dibromopropyl dichloride 4245¹
- C₆H₄Br₂NO₂ Glyoxylic acid 2,6-dibromo β -tolylhydrazono, 4244¹
- C₆H₄Br₂O Ether, allyl dibromophenyl 1815¹
- 2-Iodanol dibromo- 1517¹
- C₆H₄Br₂O Benzaldehyde, 3,5-dibromo 2,4-dimethoxy, 287¹
- Phenol, 4-amino-4-methoxy, acetate 5537¹
- Propiophenone 3,5-dibromo 2,4-dihydroxy 504¹
- C₆H₄Br₂ClN₂S Benzothiazole 3-bromo 5-chloro-1-ethylamino dibromide, 4881¹
- C₆H₄Br₂O Ether 2,6-dibromophenyl β - γ -dibromopropyl 1815¹
- C₆H₄ClBrN₂ Indole 3-(chloromescun) 2-methyl, 701¹
- Skatole 2-(chloromescun), 701¹
- C₆H₄ClBr₂ Benzamide N-chloroacetyl 402¹
- Oxamyl chloride, N-methyl 293¹

- C₆H₅ClN₂O₂** Urea, acetyl(*p* chlorophenyl)thio-, 104¹
C₆H₅CIN₃ Benzothiazole 5-chloro-1 ethylamino, 4881¹
C₆H₅ClO Acetophenone, *o* chloro-*p* methyl 4879⁴
C₆H₅ClO₂ Acetic acid, chlorothiol *p* tolyl ester 914¹
 Acetyl chloride, *p* tolylmethyl-, 914¹
C₆H₅ClO₂ Ethanol, 2 chloro benzoate 287¹
C₆H₅ClO₂ Mandelic acid chloro- Me ester 3637¹
C₆H₅Cl₂O₂ Carbamic acid ethyl *p* iodophenyl ester dichloride 4245⁴
C₆H₅Cl₂NO Acetamide, *o* *o* dichloro *N* methyl 293¹
p Acetotoluide 3 5 dichloro- 1501¹
C₆H₅Cl₂NO₂ *p* Benzenedisulfonyl chloride 2 acetamido-5-methyl 4550¹
C₆H₅Cl₂N₂O₂ Vanillin, dichloro semicarbazone 94¹
C₆H₅Cl₃O Benzene, (8 *v*, *v* trichloropropyl) 2979¹
 Mesitylene 2,4,6 trichloro, 5805¹
C₆H₅Cl₃N₂ Acetone, (2 4,6 trichlorophenyl) hydrazine 3406¹
C₆H₅Cl₃O Ether *β* *v* dichloropropyl isopropyl dichloride 1304¹ 4245⁴
C₆H₅FN₂ Cyanamide (*p* fluorobenzyl)methyl 926¹
C₆H₅FN₂O₂ Mesitylenedisulfonyl fluoride diacid 283¹
C₆H₅H₂NaO₂ Mercurate 1635¹
C₆H₅IO Ether allyl isodoprenyl 1504¹ 4245⁴
C₆H₅IO Ethanol 2 iodo- benzoate 287¹
C₆H₅IO₂ Carbamic acid ethyl iodophenyl ester 1604¹ 4246⁴
C₆H₅IN₂O Alanine, *β* (diiodosalicyl) and *HCl* 288¹
 Alanine *β* (hydroxydiiodophenyl) and *HCl* 288¹
 1(2) Pyridineacetic acid 3 5 diiodo 2 keto Et ester 4549¹
 Tyrosine diiodo 2042¹ 3727¹ 4616¹
C₆H₅N (See also *Skatole*)
 Hydrocinnamitrile 912¹
 Isoxylon triole 936¹
 Xylontriole, 936¹
C₆H₅NO Cinnamaldehyde oxime 5141¹
 Cinnamamide 2134¹
 Isoxylontriole 4 hydroxy 936¹
 Oundole, 5(and 7) methyl 293¹
C₆H₅NO₂ Isothiocyanic acid *p* phenetyl ester 4242¹
 4 Thiochromanone oxime 5425¹
 Thiocyanic acid, *p* phenetyl ester 2699¹
C₆H₅NO₂ Cinnamic acid *o* amino 3917¹
 3 Phenomorpholine 6 methyl 3347¹
C₆H₅NO₂ Glycolamide of thio benzoate 2708¹
C₆H₅NO₂ (See also *Hippuric acid*)
 Anthranilic acid *N* acetyl 2709¹
 Malonanilic acid 5671¹
 Pyridine-3 carboxylic acid 6 7-dihydro 2 hydroxy, 4883¹
C₆H₅NO₂ Benzenesulfonazole 1 acetyl 1,2 dihydro 928¹
C₆H₅NO Benzaldehyde, 4 ethoxy 3 nitro 1230¹
 Benzoic acid acetamidohydroxy, 2709¹ :
 — *ortho*, Et ester 2703¹ 3620¹
 Salicylic acid acetamido- 2709¹
C₆H₅NO₂ Sulfamic acid, (*o*-formylphenyl), 4600¹
- C₆H₅NO₂** *p* Resorcylic acid, 5 acetamido-, 2709¹
 Salvanine 2104¹
m Toluic acid, 6 methoxy 5-nitro-, 2134¹
C₆H₅NO₂ Benzoic acid 2 5-dimethoxy *p* nitro 1510¹, 3339¹
 Veratric acid, 2(and 6) nitro 298¹
C₆H₅NO₂ Glycine *N* (*m* carboxyphenyl sulfonyl) 491¹
C₆H₅NO₂ Salicylic acid nitrosulfo- Et ester and salts 3637¹
C₆H₅N₂O 1 2 4 Triazole 5(4) one 3 methyl 1 phenyl 3651¹
C₆H₅N₂O₂ 1 3 4 6 Thiodiazole 5 ol 2 amino 3002¹
 1 3 4 Thiodiazole 2(3) one 5 *o* toluene 3634¹
C₆H₅N₂O Benzenimidazole 1 2 dimethyl 6-nitro 4265¹
C₆H₅N₂O Benzoyl azide 3 5-dimethoxy, 1816¹
 Glyoxime amino Br deriv 79¹ 81¹
C₆H₅N₂O Pyruvic acid, *o*(*m* and *p*) nitro-phenylhydrazine salts 277¹
C₆H₅N₂O Apocaffeine 3 acetyl 3967¹
 Caffold 7 acetyl 1 3 dimethyl, 3967¹
 Isopocaffeine 1 acetyl 3967¹
 Mesitylene trimetro- 5805¹
C₆H₅N₂O Anisole, 3 5 dimethyl 2 4 6 trimetro 930¹
C₆H₅N₂ Triazole 3 (methylmercapto) 6 phenyl 2110¹
C₆H₅N₂O₂ Oxazoline 2 amino *p* nitro 3617¹
C₆H₅ Benzene allyl 4277¹
 Benzene propenyl 897¹, 687¹, 3617¹ 4277¹
 Indan, 992¹ 1517¹
 Styrene *α* methyl, 1817¹
C₆H₅AA₂NO₂ Malonanilic acid, *p* amino-, 6407¹
C₆H₅AA₂N₂O₂ 5 Benzenimidazolecarboxylic acid 2 (carbamylmethylmercapto) and salts 703¹
C₆H₅AA₂N₂O Benzenearsonic acid 2 formyl 4 6 methylenedioxy semicarbazone 3324¹
C₆H₅Br₂NO Acetamide, *N* *p* bromobenzyl 4243¹
C₆H₅Br₂NO₂ *p* Acetanilide 3 bromo, 1806¹
C₆H₅Br₂NO Alanine *β* (bromohydroxyphenyl) 288¹
 Alanine *β* (bromosalicyl) 288¹
 Carbanilic acid 3 bromo 2 hydroxy 5-methyl Me ester 3408¹
C₆H₅Br₂NO Benzene 1 bromo 2 ethoxy 4 methoxy 5-nitro- 2985¹
 Pyromucic acid 5 acetamido 3(or 4) bromo- Et ester, 4202¹
C₆H₅Br₂ Coumestrol, *α*, *β*-dibromo- 1817¹
C₆H₅Br₂O Toluene 2 4 dibromo-3 6 dimethoxy 4535¹
C₆H₅Br₂CIN₃ Benzothiazole 5 chloro 1 ethylamino, hydrotetrabromide 4881¹
C₆H₅CINO Acetamide *N* *p* chlorobenzoyl, 4243¹
C₆H₅CINO₂ *m* Acetotoluide *α* chloro 6 hydroxy, 3347¹
C₆H₅CINO₂ Acetic acid, (2 amino-5-chloro *m* tolylmercapto) *P* 1098¹
C₆H₅CINO₂ *p* - Toluene sulfonamide *N* chloroacetyl, 492¹
C₆H₅CINO₂ 2,5 Pyroledicarboxylic acid, 3 chloro 4 methyl Et ester, 962¹
C₆H₅CINO₂ Benzothiazole, 4 chloro 1 ethyl, 4265¹

- C₉H₁₂ClN₂O 8 Keto 8 indolo[3 2 1 *kl*] acidans 6 d azonium chloride, 2998⁵
- C₉H₁₂ClN₂O₂ 1 anilin chloro-semicarbazone 94¹
- C₉H₁₂ClNO Ketone trichloromethyl 3,4 5-trimethyl *p* pyrrol 3005⁹
- C₉H₁₂ClNO₂ 3 Pyrolocarboxylic acid 5 hydroxy 4 methyl 2 (trichloromethyl) Et ester 4009⁴
- C₉H₁₂BrO₂ Toluene *o* (m and *p*) (acetoxymercuri) 928
- C₉H₁₂BrO₂ 3 Bromine acid ethylmercurimercaptol, 1521⁵ 400⁷
- C₉H₁₂BrO₂ Anisole *o* and *p*) acetoxymercuri) 928¹
- C₉H₁₂INO Acetamide *p* iodophenyl 4213⁴
- C₉H₁₂N₂O Hydrocarlistyryl 3 amino HCl 1589⁴
- C₉H₁₂N₂O₂ Benzothiazole 1 amino 5 ethoxy P 964¹
- C₉H₁₂N₂O Glyoxime *p* tolyl 1459⁴
- Pyridine 3 nitride 1 2 3 6 7 *ta* hexahydro *a* hydroxy 2 keto 4683⁴
- C₉H₁₂N₂O Anthranolic acid *p* glycol 492⁴ 428⁴
- Benzofurazan 4 methoxy 3 5 dimethyl amide 1241⁴
- Benzene acid *m* glyoxylammon 425⁸
- Glyoxime 3 *p* tolylcarbonyl Me ester 2090¹
- 1 Propanol 1 4 *no*azolyli 1 (5 *no*azolyli) 516¹
- C₉H₁₂N₂O₂ Phenyl mercaptan 4 5-dihydro-2 imidazolyli thiosulfate 1 28⁴
- C₉H₁₂N₂O Acetamide *p* hydroxymethyl 4 nitro 4244¹
- Carbanic acid *p* nitro Et ester 2686⁴
- C₉H₁₂N₂O₂ Anisole 3 5 dimethyl 2 4 di nitro 930
- Carbanic acid 2 hydroxy 4 nitro Et ester 1249
- Tyrosine 2 nitro 2683⁴
- C₉H₁₂N₂O₂ Pyromucic acid 5 acetamide (3 or 4) nitro Et ester 4262
- C₉H₁₂N₂O₂ Alanine *p* *m* nitrophenylsulfoyl 211⁷
- C₉H₁₂N₂O₂ 1 2 Propanediol 3 2 4 dimethylphenoxy 39¹
- C₉H₁₂N₂S Benzothiazole 5 methyl 1 methyl amino- and *p* hydroxybenzamide 103¹
- Benzothiazoline 1 amino 2 5 dimethyl III 103
- Thioacetic acid *p*-dimethylamunophenyl ester P 334¹
- C₉H₁₂N₂O₂ Desoxyuric acid 9 allyl 7 methyl and HCl 3466¹
- C₉H₁₂N₂O₂ 3 Uric acid 9 allylmethyl 3-thio 3666¹
- C₉H₁₂N₂O₂ Isoxanthine 8 (carboxymethyl mercapto) 9-ethyl 3666¹
- Theobromine 8 (carboxymethylmercaptin) and *p* and 3666¹
- Theophylline 8 (carboxymethylmercaptin) 3666¹
- C₉H₁₂N₂O₂ Allylamine sulfate 70¹
- C₉H₁₂N₂O₂ Allylamine styphmate 70¹
- C₉H₁₂N₂O₂ Acetophenone *p* methyl 4540⁴ 456⁷
- p*-Anol, 427¹
- Benzyl alcohol *p* vinyl 42⁷
- Chenol, 42⁷
- Cinnamic alcohol 181⁷ 4⁷
- Fiber, *o* and *m* tolyl vinyl P 302⁷
- Hydrocinnamylaldehyde, 42⁷
- C₉H₁₂O₂ Acetic acid, benzyl ester, 8¹, 2700¹, 3620¹
- Acetophenone *p*-methoxy 515⁴, 4567⁴
- Benzene acid Et ester, 1798¹, 2⁷ 03¹, 3311¹, 3916¹
- Hydrocinnamic acid 4903⁴
- Indandiol, 691⁴, 1798¹
- Lactaldehyde *p*-phenyl, 1819⁴
- Mesitylene acid, 3538¹
- Δ* 3 Pentenone, 1 (2 furyl), 1245⁴
- 2 Propanone 1 hydroxyphenyl, 1484¹, 2426¹
- Pyrocatechol, 4-allyl 427⁷
- 4-propenyl 42⁷, 5409⁴
- Quinone 2-ethyl 6-methyl 5410¹
- Lylic acid 3538¹
- C₉H₁₂O₂ Benzaldehyde 3 ethoxy-4-hydroxy, P 3363¹ P 5678¹
- Benzene acid hydroxy Et ester, 1031¹
- , *o*-methoxy Me ester 3326¹
- p* Furazacrylic acid, Et ester 1245⁴, 2143¹
- Glycol monobenzoate 3311¹
- Isosyric acid, 4-hydroxy P3⁴
- Propiophenone 2 4-dihydroxy, 504⁴
- Salicylic acid, Et ester 3325¹
- Toluic acid methoxy 1814⁴ 2134¹
- Tropic acid 1833¹
- Veratraldehyde, 427⁷
- 3 4 Lylic acid 6-hydroxy, P 3015⁴
- C₉H₁₂O₂ Acetic acid, (*p*-anis)oxy, 930⁴
- Phenylpropiophenone 4250⁴
- p* Resorcylic acid 3 4-dimethyl, 268⁴
- Succinic anhydride (2 keto-cyclopentyl), 4531¹
- Veratraldehyde hydroxy, 707⁴, 4666¹
- C₉H₁₂O₂ Fural dicarboxylate 4580¹
- o*-Veratric acid 6 hydroxy 4868¹
- C₉H₁₂O₂S Hydratropic acid, *p* sulfo- salt, 4564¹
- Hydrocinnamic acid *p*(7) sulfo-, and salt, 4564¹
- 1 Phenol 4 sulfonic acid Me ester, acetate 3329¹
- O₁H₁₂O₂S Acetic acid *n* *a* (furaldithio)bis, 4393¹
- C₉H₁₂O₂V, 1434¹
- C₉H₁₂O₂ 1, 2 Cyclooctaenedicarboxylic acid, 3 5-diketol 2-dimethyl 3831¹
- C₉H₁₂O₂S Salicylic acid 3-sulfo-, di Me ester, 3322¹
- C₉H₁₂N₂O₂ 6 Benzimidazolecarboxylic acid, 1 2-dimethyl, 4265¹
- C₉H₁₂N₂O₂ Arsanilic acid *p* (cassamyl acetyl) and *p* salt 540⁷
- C₉H₁₂ Br Mesitylene 2 bromomethyl, 2124⁴
- Toluene *o*-(*p* bromomethyl) 1232⁴
- C₉H₁₂ BrN₂ Urea *n* 3 bromo-*p* tolyl *p*-methylthio 404
- C₉H₁₂Cl Pseudocumene *o*-chloro-, 5154⁴
- C₉H₁₂ClN₂ Urea, *n* *p* chlorophenyl *p*-ethylthio 4581¹
- C₉H₁₂ ClN₂O Theobiotans 1 (*p* chloro-ethyl) 1030¹
- C₉H₁₂ClO Ether *p* (chloromethyl)benzyl methyl 4540
- C₉H₁₂Cl₂O Ether *p* iodophenyl isopropyl, dichloride, 4245¹
- Ether *p*-iodophenyl propyl, dichloride, 4245¹
- C₉H₁₂ I Mg 2 Mesitylmagnesium iodide, 3642¹
- C₉H₁₂ IN₂O Urea *n* (*p* sodioethyl) *p* phenyl, 3647¹
- C₉H₁₂N₂ Aniline, *p* allyl 904

- Aniline, *N* isopropylidene-, 282⁴
 Δ^8 - Bicyclo[3.2.1]heptene-2-nitrile, methyl,
 P 2436¹, P 4891¹
- C₈H₉NO (See also *Acetotoluidine*)
 Acetophenone, β methyl-, oxime 1506²
 3329⁴
- Benzaldehyde β dimethylamino-, 1235¹
 Benzamide, *N*, *N* dimethyl-, 3361³
 Benzenedic acid, Et ester 3261²
 Hydrocinnamamide, 2134¹
 2 Propanone 1 phenyl-, oxime 5141¹
 Propiophenone, oxime, 3329⁴ 5140²
 α Toluidine acid Me ester HCl 2135¹
- C₈H₉NO₂ (See also *Alumina phenyl Benzamide*)
 β Acetamide, 1808¹
 Acetophenone β hydroxy α methyl
 amino-, 745¹ P 3360⁴
 Anthranic acid, Et ester 3620²
 Benzene acid β (β -aminoethyl) 2194¹
 Carbanic acid ethyl ester 3090²
 Δ^1 = Cyclopentaneacetic acid = cyano 3
 methyl 4234⁴
 Homopropionylamide, 2981² HCl, 2134¹
 Lactaldehyde β phenyl oxime 1820²
 Phlorone, O-methylamide 933²
 Propiophenone α -hydroxy-, oxime 930²
 Pyrrole, 1 (γ ketovaleryl), 1521²
- C₈H₉NO₃ (See also *Tyrosine*)
 Acetophenone 2 hydroxy 6 methoxy
 oxime, 3580⁴
 Adrenalone, 532¹ 745¹ 2487² 5926³
 Amine, dimethylamino 930² 2424¹
 Benzamide 3,5-dimethoxy 1516¹
 Ether α nitrophenyl propyl-, 5669²
 Nootone acid 1,6 dihydro 6 keto 1
 methyl Et ester, 1269²
 Phenol, oxime 3590
 Phenol, nitropropoxy-, 5669²
 α Tyrosine 258¹
- C₈H₉NO₄ Alamine (dihydroxyphenyl), 2042²,
 4224⁴
 Benzyl alcohol, α methoxy α nitro-
 methyl 516¹
 Phenol, nitropropoxy-, 5669²
 2,5 Pyroledicarboxylic acid 3 ethyl 4
 methyl 5900¹
 2 Pyroledisuccinic acid 5 methyl 3647¹
- C₈H₉NO₅ Alamine *N* (phenylsulfonyl)
 2118²
 Brozone acid β (dimethylsulfonyl), 928¹
 C₈H₉N₃ Thiochroman 4-amino 5425⁴
 C₈H₉N₃ Carbanic acid phenethylidithio-
 NEt salt, 4241¹
- C₈H₉N₄O, 306¹
 Anthranic acid, ethyl dehydratide, 4882²
 Benzaldehyde 2 methylbenzylcarbazone
 2701¹
 2(3) Benzenediazolone, 5 amino 1
 ethyl, P 4283¹
 Pyridine 3 (1-nitroso 2 pyrroldyl)
 and chloroplatinate, 300¹
- C₈H₉N₄O₂ Amsaldehyde, 2 hydroxy, semi-
 carbazone, 1507⁴
 C₈H₉N₄O₃ Furan, 3 (aminoethyl) (7),
 tri Ac deriv, 1248¹
 C₈H₉N₄O₃ Benzenesulfonic acid, nitro, α
 propylidenehydratide 2702¹ *
- C₈H₉N₄O₄ Urea, α (hydroxymethyl) - β
 (hydroxynitrobenzyl), P 1261¹, 5399²
 C₈H₉N₄O₅ 2 Pyroledaldehyde, 4 cyano 3,6-
 dimethyl, semicarbazone 698²
 C₈H₁₁ (See also *Mentylene Pseudomons*)
- Benzene, isopropyl-, 1717¹
 —, propyl-, 1717¹, 2038¹, 4277¹, 4751¹,
 5323¹
 Cumene 1131¹ 1134¹
 C₈H₉AsNO₂ Carbanic acid, 4 arseno-2 hy-
 droxy Et ester 1249¹
 C₈H₉BrN Benzylamine, β bromo *N*, *N*
 dimethyl-, HCl 91¹
 C₈H₉BrNO Phenethylamine, 3 bromo 4
 methoxy, salt 4552¹
 C₈H₉BrNO₂ 3 Pyroledicarboxylic acid, 2
 (bromomethyl) 5 hydroxy 4 methyl,
 Et ester 4010¹
 C₈H₉ClNO₂ 3 Pyroledicarboxylic acid 2
 (chloromethyl) 5 hydroxy 4 methyl
 Et ester 4009¹
 C₈H₉ClNO₅ 5 Carboethoxy 2 4 dimethyl
 3 pyrolediazonium chloride 961¹
 C₈H₉ClNO₆ Hydrazine, *N* chloroacetyl, methyl
 ester 5180²
 C₈H₉FeNO₃S Mesitylenesulfonyl fluoride,
 aniso-, 263¹
 C₈H₉NO₂ 2(1) Pyridone 1 butyl 5 sodo,
 and HCl 953²
 C₈H₉N₃ Cyclopentanecetonitrile 1 cyano-3-
 methyl 4234⁴
 Pyridone 3 (2 pyrrol dyl) and salt,
 2094¹
 C₈H₉N₃O Δ^1 = Cyclopentaneacetamide, α
 cyano-3 methyl, 4234⁴
 Urea phenethyl-, 5405²
 C₈H₉N₄O₂ Urea, [(β ethylmercapto)phenyl]
 936¹
 Urea β phenethylthio- 4242²
 C₈H₉N₄O₃ (See also *Dulcine*)
 Isovaleric acid, α γ -dicyano Et ester
 1803¹
 Ketone methyl 5 methyl 2 pyrrol
 oxime acetyl deriv 3008¹
 Phenol β isopropylautocyanamido-, 2984¹
 β Toluidine *N* *N*-dimethyl 2 nitro-, 2363²
 C₈H₉N₄O₂ Amine α nitropropoxy 5669²
 Benzene acid 3,5 dimethoxy hydrate
 and salt HCl 1816¹
 Carbanic acid 4 amino 2 hydroxy
 Et ester, 1240²
 2(1) Pyridone, 1 butyl 5-nitro 953²
 2 Pyroledicarboxylic acid 4 acetamide
 3 5-dimethyl, 961¹
 Urea, α (hydroxybenzyl) β (hydroxy
 methyl) P 1261¹
 Xylene, methoxymino-, 930², 2424¹
 C₈H₉N₄O₃ β Toluenesulfonamide, *N* glyceryl,
 492¹
 C₈H₉N₄O₃ Urea methylthio β -tolyl, 1037²
 C₈H₉N₄O₃ Urea [(β ethylmercapto)phenyl]
 thio- 936¹
 C₈H₉N₄O₃ (7) Pyrolediazone 5,6 dihydro,
 semicarbazone 1521¹
 C₈H₉N₄O₄ Isoxanthine, 1,3,8,9 tetramethyl,
 3960²
 C₈H₉N₄O₄ Theobromine, 1 (β hydroxy-
 ethyl) 030²
 C₈H₉N₄O₅ Paroudine acid, 9-allylmethyl-8-
 thio, 3960²
 C₈H₉N₄O₅ 1,2,3 Benzotriazole, 1-methyl-
 6 nitro, MeSO₂ deriv, 1250²
 C₈H₉N₄O₆ Ethylamine, *N* methyl, picrate,
 4523¹
 Isopropylamine, picrate 70¹
 Propylamine, picrate 70¹
 Trimethylamine, picrate, 70¹
 C₈H₉N₄O₆ Isopropylamine, styphnate, 70¹

- Propylamine styphnate 704
Trimethylamine chloride 70
C₈H₁₁N₃O₅ Guandine α β hydroxyethyl
isera c o b
C₈H₁₁N₃O₅ Amide d methyl 930 930^a 2424^a
Benzyl alcohol α β methyl 1813^a
 α methyl 3645^a
1-th-2-isopropyl phenyl 9953^a
1-th-2-isopropyl 1^a 9^a
Methyl 4-13^a
Ethethyl alcohol α methyl 504^a 381^a
1818^a
Phenethyl β methyl 2706
Phenyl β isopropyl P 303
1-th-2-isopropyl 1^a 9^a 1813^a 42^a
C₈H₁₁N₃O₅ Benzaldehyde d Me acetal 3798
Benzyl alcohol β methoxymethyl 4540^a
Cresol ethoxy 39^a
3-Cyclopentenone 2 allyl 3 of 5
nethyl 10,4^a
Guacal 4 ethyl 46
Hydroquinone α ethyl 6 methyl
410
 α β Octatrienol acid Me ester 653^a
1-phenyl 1 furyl 124^a
Phenyl isopropyl 5408 569^a
C₈H₁₁N₃O₅ Amide alcohol 3 hydroxy α methyl
4,41^a
Benzene 1 trimethoxy 2134^a
Cyclopentanecarboxylic acid 1 carboxy 3
methyl anhydride 4234 5403^a
1-uranpropionic acid Et ester 1245^a
1-th-2-isopropyl methyl 40^a
1-uranpropionic acid Bu ester 3645^a
C₈H₁₁N₃O₅ β Toluenesulfonic acid Et ester
2704^a
C₈H₁₁N₃O₅ β 5 β Spiroheptanedicarboxylic acid
4855
C₈H₁₁N₃O₅ Toluenesulfonic acid methyl
Me ester 2322^a
C₈H₁₁N₃O₅ Succinic acid 2 ketocyclopentyl
4-31^a
Xylal diethyl 5147
C₈H₁₁N₃O₅ Octanetetra-carboxylic acid 3603
C₈H₁₁N₃O₅ Barbituric acid 5-homo-5-iso-
amyl 5400
C₈H₁₁N₃O₅ Mesitylenesulfonic fluoride d
amino 283^a
C₈H₁₁N₃O₅ Pyridine 2 diethylamino 5 iso-
P-45^a
C₈H₁₁N₃O₅ Amine 5 ethyl N methyl, 3225^a
Amide N propyl 375^a HBr 4241^a
Mesitylamine α ethyl 3090^a
3-Cyclopentanecarboxylic acid, α 3 di-
methyl 4234^a
Mendane and HCl 4533^a
3-hydroxylamine methyl, 304^a and HCl
2703^a
3-propylamine γ phenyl 3090^a
Pyridine 2 butyl 1820^a
— 2,3,4,6-tetramethyl 3652^a
Toluidine, N γ -dimethyl 3,09^a 2365^a
C₈H₁₁N₃O₅ Amine, α propyl and HCl,
4660^a
Benzyl alcohol α (methylammonomethyl),
P 3263^a P 43 40^a
Ketone 2,1-dimethyl 3 pyridyl ethyl
3010^a
Norephedrine, 146^a 3091^a and HCl,
3617^a
3-hydroxylamine, methyl, 2983^a and
441^a, 2133^a 441^a, 5406^a
2(1) Pyridine, 4 β -dimethyl, 3529^a
- Xylidine, methoxy, 930^a, 2424^a
C₈H₁₁N₃O₅ Acid from (carboxymethyl)keto 4-
methyl 3 - pyrrolidinemethylmalonic
acid, 4263^a
Benzyl alcohol, α (α -aminoethyl) - β
hydroxy, 146^a
—, α (α -aminoethyl) - α methoxy, 516^a
Epamine, 745^a
Pentenoic acid, cyanomethyl, Et ester,
2696^a
Pyrocatechol, 4-(γ -aminopropyl)-, 2194^a
2-Pyrrolicarboxylic acid 1 butyl, 951^a
—, 5-ethyl-, Et ester, 3008^a
Pyrrolicarboxylic acid, Et ester, 1521^a
— 5-methyl-, Me ester, 3647^a
Spirocyclopentane - 1,3 - pyrrolidine
2,5-dione, 3 methyl, 4234^a
Sympathin, 745^a, 2195^a, 3127^a, 4045^a,
4047^a HCl, 5954^a
Synephrine, 2486^a
Veratrylamine, HCl, 1220^a
C₈H₁₁N₃O₅ (See also Adrenalin)
Methoxy acid, β salt, 1893^a
Protocatechuy alcohol, α (α -aminoethyl),
307^a
4-Pyranecarboxylic acid, 4-cyanotetrahydro-,
Et ester, 683^a
C₈H₁₁N₃O₅ Benzenesulfonamide β (hydroxy
methyl) V, N-dimethyl, 925^a
C₈H₁₁N₃O₅ Glutaric acid, α -cyanomethyl β methyl,
1603^a
C₈H₁₁N₃O₅ Xylenesulfonic acid, amino-methoxy,
 β salt 930^a, 2424^a
C₈H₁₁N₃O₅ Uridinephosphoric acid, 308^a
C₈H₁₁N₃O₅ Guandine, α -(α -methylbenzyl), β salt,
4534^a
C₈H₁₁N₃O₅ α , γ , δ -Octalinaldehyde, semi-
carbazone, 683^a
C₈H₁₁N₃O₅ 3-Ilydantoinacetone acid, Et ester,
4729^a
C₈H₁₁N₃O₅ Semicarbazide, 2 ethyl-4 phenyl 3
thio-, 4862^a
C₈H₁₁N₃O₅ Biguanide, o-tolyl 2421^a
C₈H₁₁N₃O₅ Apocaine, 2326^a
Cyclic diol β 164-61, from brown coal
tar oil 3463^a
Santene, 3647^a
Tetryl [2,2,1,0^a]heptane, 3,3-dimethyl,
3635^a, 5672^a
C₈H₁₁N₃O₅ o-Arsanilic acid, N propyl, 4863^a
C₈H₁₁N₃O₅ m-Arsanilic acid, N β hydroxy
ethyl-4-ethyl, P 3439^a
Arsanilic acid N- γ hydroxypropyl, P 3439^a
C₈H₁₁N₃O₅ Trime-thyl(phenylsulfonyl)am-
monium chlorosulfate, 5350^a
C₈H₁₁N₃O₅ Probas, 1 (α -benzobutyl), 17^a
C₈H₁₁N₃O₅ Trime-thyl(phenylsulfonyl)am-
monium chloride, 5350^a
C₈H₁₁N₃O₅ Trime-thylphenylammonium mer-
curisulfide 689^a
C₈H₁₁N₃O₅ Benzylamine, β -dimethylamino-, 4243^a
C₈H₁₁N₃O₅ Benzyl alcohol β -amino- α -(α -amino-
ethyl), HCl, P 3363^a
Benzyl alcohol β -amino- α -(methylamino-
methyl) HCl P 3363^a
2-Pyrrolicarboxamide 3 butyl, 953^a
C₈H₁₁N₃O₅ Pyrimidine, 2,4-dicarbonyl 5-methyl,
54^a
2(1) Pyrimidine 4-ethoxy 1-ethyl 5-methyl,
54^a
C₈H₁₁N₃O₅ 2-Pyrrolicarboxamide N,3-di-
acetyl, 3095^a
C₈H₁₁N₃O₅ 4-Pyrimidinolaldehyde, 1,2,3,6

- tetrahydro-6-keto-2-thiokeeto, di Et acetal, 3001¹
- C₂H₁₃N₃O₂ Alanil *N*-anhydroglucosamine anhydride, 1803⁴
- 3-Ilydaatonaacetic acid butyl ester 4228⁷
sec butyl ester, 4228⁷ isobutyl ester, 4228⁷
- C₂H₁₃N₃O₂ Dehydroalanil *N*-glucosamine anhydride, 1803⁴
- C₂H₁₃N₃O₂ (See also Carboxine)
Histidine *N*-alanil, 5180⁸
- C₂H₁₃O 2-Butanone-3-cyclopentylidene, 283⁹
Camphenone, 3638⁹ 3647⁹
Cyclohexanol, 1-ethyl-4-methyl, 4857⁹
Δ¹-Cyclohexenaledehyde, 4,6-dimethyl, 1037⁹
Δ¹-Cyclohexanone, 4-isopropyl 4532⁹
2-Iodooxone, hexahydro- 3333⁹
ketone, methyl 4-methyl Δ¹-cyclohexenyl 4857⁹
- 2-Propanone, 1-cyclohexenyl, 2137⁹
—, 1-cyclohexylidene- 2137⁹
4,6-Spirooxone-2-one 4531⁹
- C₂H₁₃O₂ Δ¹-Cyclohexanecarboxylic acid methyl 283⁹
Δ¹-Cyclohexanecarboxylic acid methyl 280⁹
Δ¹-Cyclohexenone, 3-hydroxy-5-isopropyl 3319⁹
— 3-hydroxy-5-p-oxyl 3319⁹
Cyclopentanone allyl 2-hydroxy-3-(or 5)-methyl, 1024⁹
Sorbic acid methyl, Et ester, 4663⁹
- C₂H₁₃O₂ 2,5,8-Nonaacetone, 3662⁹
- C₂H₁₃O₂ 1,4-Thiopyran-3-carboxylic acid tetrahydro 4-keto 2,6-dimethyl, Me ester 932⁹
- C₂H₁₃O₂ Trimethylsulfonium benzenesulfonate, 5150⁹
- C₂H₁₃O₂ Caryophyllene acid, 2955⁹
Cyclohexanone, 2-hydroxy 4,6 (isopropylidenedioxy) (?) 3349⁹
Cyclopentanecarboxylic acid 1-carboxy-3-methyl, and di Ag salt 4234⁹ 5403⁹
1,1-Cyclopentadienecarboxylic acid 5664⁹
Cyclopentanemalonic acid, 3-methyl, 4243⁹
and di-Ag salt, 5403⁹
Cyclopropanedicarboxylic acid di-Et ester 3625⁹
Glutaconic acid tetramethyl, 4530⁹
Mesaconic acid, di-Et ester 3876⁹
- C₂H₁₃O₂ 3,6-Anhydroacetoneglucose, 2120⁹
Anhydroglucose, acetone, 85⁹
3,6-Anhydrodextrose, acetone, 2121⁹
Rhamnosylactone, trimethyl, 277⁹
Xylal, diacetylaldehyde, 5147⁹
- C₂H₁₃O₂ 1,1,3-Pentanetricarboxylic acid, 2-methyl, 1803⁹
1,1,3-Propanetricarboxylic acid 1,2,3-trimethyl, 82⁹
- C₂H₁₃O₂ Fructurome-3-sulfonic acid, 1,2-acetone, and di-K salt, 2122⁹
- C₂H₁₃O₂ Furoindiacidsulfonic acid, acetone-di-K salt, 2122⁹
- C₂H₁₃ 31-Silicane trimethylphenyl, 4536⁹
C₂H₁₃ AuBrN Diethylgold bromide, compd with pyridine 1216⁹
- C₂H₁₃ BiN₂O₂ Glycyl, *N*-(*N*-bromoacetyl valyl), 2693⁹
Valine, *N*-(*N*-bromoacetyl glycidyl), 2693⁹
- C₂H₁₃Cl Norpinane, 3-(or 4)-chloro-7,7-dimethyl, 3326⁹
- C₂H₁₃IN₂ Ethylmethylphenylazonium iodide 2982⁹
- C₂H₁₃N Pyrolic dimethylpropyl, 3009⁹ 3010⁹
- C₂H₁₃NO Δ¹-Cyclohexanecarboxamide 2-(and 3)-methyl 280⁹
Δ¹-Cyclohexanecarboxamide 2-methyl, 280⁹
ketone methyl 4-methyl Δ¹-cyclohexenyl oxime 4857⁹
Quinolizone 1(9a)-one hexahydro- 3007⁹
- C₂H₁₃NO₂ Butyric acid α-cyano-α-ethyl, Et ester 1217⁹ 2116⁹
Isovaleric acid α-cyano-α-isopropyl and Ag salt, 1219⁹
- C₂H₁₃NO₂ Malonic acid acetamido, di-Et ester 5395⁹
- C₂H₁₃NO₂ Malonic acid amido- di-Et ester acetate 919⁹ 1219⁹
- C₂H₁₃N₂O N-carbamoyl 3-methyl semicarbazone 3647⁹
- C₂H₁₃N₂O₂ (See also Thioacetic)
1,3,4-Thiodianis 5-ol 2-isobutyl amido- Ac deriv 3002⁹
- C₂H₁₃N₂O₂ Glycine *V* (*V*-prolylglycyl) 2974⁹
- C₂H₁₃N₂O₂ 4-Imidazolecarbamamide, 4 (α,β-dimethylcarbamido)tetracydro- 2,5-di-keto *N*,1-dimethyl, 3967⁹
- C₂H₁₃O₂P₂ Furthodacid 1-phosphonic acid β-acetate in Na salt 5148⁹
- C₂H₁₃ Hydrogenation product b 170 2⁹ of campd from brown-coal tar ml 3463⁹
3-Norone 2112⁹
- C₂H₁₃BrNO₂ Leucine, *V* (α-bromopropionyl) 493⁹ 5143⁹
- C₂H₁₃BrNO₂ Glucosamine *V* (α-bromopropionyl) 1803⁹
- C₂H₁₃CH₂ClN₂O₂ Malonamide α-α-bis(chloromercuro) *N*,*N*-dipropyl 1219⁹
- C₂H₁₃H₂N₂O₂ Acetamide α-cyano-α-(hydroxymercuro) *N*-isohexyl, 3619⁹
- C₂H₁₃INO₂ Cyclohexanecarboxylic acid, 2-iodo-, Et ester 3617⁹
- C₂H₁₃N₂ Camphenone, hydrazone, 3639⁹
- C₂H₁₃N₂O₂ Acetamide, α-cyano *N*-isohexyl 3619⁹
- C₂H₁₃N₂O₂ Proline, 1-alanyl, Na ester 77⁹
Proline 1-(α-amino-butyl), 77⁹
2-Pyrrolidonecarboxamide, 1-α-hydroxybutyl, 77⁹
- C₂H₁₃O Cyclohexanone, 4-isopropyl 4532⁹
Cyclohexanone 2-methyl, 3972⁹
Cyclopentanone 2-isopropyl 5-methyl, 508⁹
Ketone methyl 4-methylcyclohexyl, 4857⁹
γ-Santonol 3617⁹
- C₂H₁₃O₂ Ennthaldehyde α-keto-α,α-dimethyl, 3354⁹
α-Hexanoic acid, α-ethyl β-methyl, 4524⁹
Hydromelic acid, α-ethyl β-methyl, 4524⁹
- C₂H₁₃O₂ Acetoacetic acid α-ethyl-α-methyl, Et ester 495⁹
Caproaldehyde, α-hydroxy γ-methyl-, acetate, 2675⁹
Leucine acid, Bu ester, 496⁹ 5398⁹ isobutyl ester 496⁹ 5398⁹
Pelargonic acid, keto-, 1453⁹ 3973⁹
- C₂H₁₃O₂ (See also Acetic acid)
2-Furanecarboxal tetrahydro-5-methoxy-5-methyl (β), acetate 488⁹
Glucal trimethyl 4231⁹
Glutaric acid, di-Et ester, 1798⁹
—, β,β-dimethyl, 6664⁹
—, α,α-β γ-tetramethyl, 4530⁹
Malonic acid, diisopropyl, and salts 1219⁹ *

— dipropyl 5664⁷ and 5623⁸
ethyl di Et ester 917⁹

3 Pyranol tetrahydro 6 methoxy 6 methyl 1 acetate 485⁸

C₈H₁₆O₈ Acetic acid α (methylenedithio) bis di Et ester 4303⁸

C₈H₁₆O₈ Glucosidonic lactone trimethyl 498⁹

Levoglucosan trimethyl 1496

1,2 Propanediol 3-ethoxy diacetate 916⁹ 269⁷⁰

Rhamnomalactone trimethyl 1222⁹ 5815⁹

Xylose monomethylacetone 5321⁹

C₈H₁₆O₈ Fructose acetone 2122⁹

Galactonolactone trimethyl 2118⁹ 4855⁹

Galactose monomethone 4855

Glucose acetone 50⁹ 9120⁹ 331a

Glucose ethylenemethyl 5147⁹ 3401⁹

Mannonolactone trimethyl 4029⁹

Pentaerythritol diacetate 180⁹

Rhamnose γ acetylmethyl 56⁹

— methyl monoacetate 56

C₈H₁₆O₈ Glucuronic acid 2 3 4 trimethyl 2119⁹

C₈H₁₆O₈ Mucic acid 2 3 4 trimethyl 2118⁹

C₈H₁₆O₈ Fructose 3 sulfone acid α acetone and salt 212⁹

C₈H₁₆O₈ Cyclohexanecarboxylic acid dithio-Et ester 500

C₈H₁₆O₈ 2 4 Pentanedione, diethylgold de riv 1216⁹

C₈H₁₆BrO Ether α (a bromopropyl) δ butyrylmethyl 2684⁹

C₈H₁₆Cl₂O₈ Pentamethonium perchlorate 1 5 bis(dimethylamino) 3579⁹

C₈H₁₆ClO Caprylyl chloride β methyl 3627⁹

C₈H₁₆IN₃ 2 5 Dithio 1 2 2 a 5 penta methyl 1 pyranium iodide 516⁹

C₈H₁₆N₃ Basic bis 43-5⁹ from reduction of compd from lupranic acid and chloroacetate 300⁷¹

Caprylonitrile β methyl 3627⁹

Pelargononitrile 5373⁹

Quinolizone, octahydro- and chloroacetate 300⁷¹

C₈H₁₆NO Cyclooctanone 2 methyl oxime 3972⁹

Quinolizolol octahydro- 300⁷¹

C₈H₁₆NO₂ 2 Morpholine 4 ethyl 3 6 6-trimethyl and HCl 5143⁹

C₈H₁₆NO₂ Malonic acid α α -disopropyl and Ag salt 1219⁹

C₈H₁₆N₂O Cyclooctanone semicarbazone, 3972⁹ α -heptenaldehyde α -methyl semicarbazone 5140⁹

δ -3-heptenone, 5-methyl, semicarbazone 3312⁹

δ 2 Hexenone 3 4 dimethyl semicarbazone 3312⁹

1 Piperidinecarboxylic acid isopropylidene hydrazide, 4269⁹

C₈H₁₆N₂O₂ 2 Pyrrolidinecarboxamide 1 (a amonobutyryl) 77⁹

C₈H₁₆N₂O₂ Levulinic acid isopropylester semicarbazone, 499⁹ Frester semicarbazone 499⁹

C₈H₁₆AsN₂O₂ Arsenic, triethylmethyl 78⁹

C₈H₁₆AsCl₂NO₂ Chloro acetylpyridyl, chloroacetate 331a⁹

C₈H₁₆AsN₂O₂ Dinitroethylgold cyanide 4220⁹

Dinitroethylgold cyanide, 4220⁹

C₈H₁₆BrClO₂ Methane, amoxy(β -bromo- β -chloropropoxy), 2979⁹

C₈H₁₆Cl₂O₂ Methane amoxy(β , β' - dichloropropoxy), 2979⁹

C₈H₁₆N₂O₂ 2,3 - Dihydro - 1,2,2,5,5 - penta methyl 1 pyranium hydronide, 2728⁹

2 Pyranol, 1 2 3,6 - tetrahydro 1,3 3 6, 6-pentamethyl, 2728⁹, and chloroplausalt, 516⁹

C₈H₁₆N₂O₂ Pentane, 2 4-diacetamido- γ 4223⁹

C₈H₁₆N₂O₂ Glycine, V (V methylenesyl), 2627⁹

3 Pentanol, 3-ethyl, allophanate, 2116⁹

C₈H₁₆N₂O₂ Compd from methylcaffeine and MeI III 5894⁹

C₈H₁₆O₂ Cyclohexanecarbinol, α ,4-dimethyl, 485⁹

Cyclohexanol isopropyl, P 303⁹, 4234⁹, 4533⁹

—, 2 propyl 4234⁹

Nonanone, 5322⁹, 5662⁹

C₈H₁₆O₂ Acetic acid heptyl ester, 1137⁹

Caproic acid methyl, Et ester, 3626⁹, 484⁹

Caprylic acid β methyl, 3627⁹

Eanthic acid Et ester, 5323⁹

Pelargonic acid 145⁹ 3014⁹

Semioaldehyde di Et acetal, 2414⁹

Valeric acid α β -dimethyl, Et ester, 4845⁹

C₈H₁₆O₂ Butyric acid α -ethyl β hydroxy- α methyl Et ester, 2656⁹

Caproic acid β hydroxy β methyl, Et ester, 4524⁹

Carbamic acid di Bu ester, 3620⁹

C₈H₁₆O₂ Caproic mono-, 5337⁹

5 α Dioxanecarbalol 5 (methoxymethyl) 2 2-dimethyl, 1501⁹

2 Propadiol 1 3-dethoxy, acetate, 916⁹, 2692⁹

C₈H₁₆O₂ Glucosidose, trimethyl, 498⁹

C₈H₁₆O₂ Glucose, α propyldiol, 4232⁹

C₈H₁₆O₂ Fructofuranose 1,3,4-trimethyl, 2975⁹

Galactose 2 3,4-trimethyl, 2118⁹

Glucosidonic acid trimethyl, Et salt, 498⁹

Trimethylhexose, 4577⁹

C₈H₁₆Br Octane 1 bromomethyl-, 3627⁹, 3628⁹

C₈H₁₆ClO 1 Nonanol, 9-chloro-, 5395⁹

C₈H₁₆CS₂ Nonyl mercaptan, Cu deriv, 2381⁹

Octyl mercaptan, α -methyl, Cu deriv, 2381⁹

C₈H₁₆N₂ Pyrrolidine 2,2-diethyl 1 methyl, and salts 102⁹

C₈H₁₆NO Caprylamide β -methyl, 3627⁹

Eanthamide, V, γ -dimethyl, 2973⁹

2 Nonanone, oxime, 5322⁹

1 Piperidinebutanol 1813⁹

Pivalaldehyde β -diethylamino-, P 234⁹

C₈H₁₆NO₂ Caproic acid α -dimethylamino, Me ester 1218⁹

Leucine Frester HCl 490⁹

Pelargonic acid β -amino- 489⁹

C₈H₁₆N₂O₂ Cyclohexanecarboxamide, V propyl, 1812⁹

C₈H₁₆N₂O 3 Heptanone 5-methyl, semicarbazone, 1217⁹, 3312⁹

2-Heptanone 3 4-dimethyl, semicarbazone, 1217⁹, 3312⁹

C₈H₁₆N₂O₂ 3 Heptanone, 5 - hydroxy - 5-methyl, semicarbazone, 3312⁹

2 - Heptanone, 3 hydroxy - 3 4 - dimethyl, semicarbazone, 3312⁹

C₈H₁₆Heptane, dimethyl, 4846⁹, 5137⁹

- Nonane, 296⁷, 3889⁸
 Octane methyl 3626^{1,2}
 C₁₂H₁₇NO₂ 1 β Methoxyethyl 1 methyl
 piperidinium chlorosulfate, 1814³
 C₁₂H₁₇NO₂ (1 Carboxyethyl)trimethylammonium chlorosulfate 1218⁴
 C₁₂H₁₇NO₂ (2 β Hydroxyethyl) 1,1 dimethyl
 piperidinium iodide 1614⁵
 C₁₂H₁₇NO₂ Propionyl chloride β hydroxy- di-^{1,2}
 acetyl acid oxalate 4237⁶
 C₁₂H₁₇N₃ Tetraethylammonium thiocyanate
 2301⁷
 C₁₂H₁₇N₃ Azelamide di HCl 566⁸
 C₁₂H₁₇O 2 Heptanol, 2 α -dimethyl 4846⁹
 3-Nonanol 4234¹⁰
 Octanol methyl 362¹¹, 3625¹², 4214¹³
 4843¹⁴
 3 Pentanol, 2,2,4,4 tetramethyl 4¹⁵
 C₁₂H₁₇O₂ Heptane dibutyl P 243¹⁶
 19 Nonanediol 19¹⁷
 C₁₂H₁₇O₂ 2 Propanol 1,3-dipropoxy 116
 2622¹⁸
 2 Propanol 1,3-dipropoxy 916¹⁹
 C₁₂H₁₇S Nonyl mercaptan ²⁰
 C₁₂H₁₇As Arsenic tripropyl 146²¹
 C₁₂H₁₇AsBr₂ Arsenic tripropyl dibromide 148²²
 C₁₂H₁₇AsCl₂ Arsenic tripropyl dichloride 148²³
 C₁₂H₁₇AsCl₂Hg Arsenic tripropyl HgCl₂ diethyl
 1486²⁴
 C₁₂H₁₇AsI₃ Arsenic tripropyl diiodide 148²⁵
 C₁₂H₁₇AsO Arsenic tripropyl oxide 148²⁶
 C₁₂H₁₇AsO₂ Arsenic tripropyl sulfate 148²⁷
 C₁₂H₁₇AsS Arsenic tripropyl sulfide 148²⁸
 C₁₂H₁₇Bi Bisantimony tripropyl 29²⁹
 C₁₂H₁₇N Octylamine γ methyl 36³⁰
 Tripropylamine ³¹
 C₁₂H₁₇NO 2 Butanol 1-diethylamino 3 methyl
 and HCl 2690³²
 C₁₂H₁₇NO₂ (2-Carboxyethyl)trimethylammonium
 hydroxide 1218³³
 C₁₂H₁₇N₃ Triazine 1,3,5-triethylselenohydro-
 4023³⁴
 C₁₂H₁₇N₃O Semicarbazide 1,2-diethyl-
 2416³⁵
 C₁₂H₁₇NO (β Methoxy α , α dimethylpropyl
 trimethylammonium iodide 1814³⁶
 C₁₂H₁₇N₃O 2 Propanol 1-diethylamino-3-ethyl
 amine, P 1259³⁷
 C₁₂H₁₇Si Silicane triethylpropyl 4036³⁸
 C₁₂H₁₇ClN₃ (4 Dimethylaminobutyl)trimethyl
 ammonium chloride 2691³⁹
 C₁₂H₁₇ClN₃O₂ (γ , γ Diethoxypropyl)dimethyl
 hydrazonium chloride 4238⁴⁰
 C₁₂H₁₇N₃O₂ (γ , γ Diethoxypropyl)dimethyl
 hydrazonium iodide 4237⁴¹
 C₁₂H₁₇ClN₃O₂ (γ , γ Diethoxypropyl)dimethyl
 hydrazonium chlorosulfate 4238⁴²
 C₁₂H₁₇N₃O₂ (γ , γ Diethoxypropyl)dimethyl
 hydrazonium hydroxide 423⁴³
 C₁₂H₁₇ClN₃O₂ 2 Isomoloneacetyl chloride
 4,5,6,7 tetrachloro-1,3-diketo-, 332⁴⁴
 C₁₂H₁₇Br₂O₂ 1,2 Naphthoquinone, tribromo-
 946⁴⁵
 C₁₂H₁₇Br₂O₂ 1,2,4(3) Naphthalenequinone, 2,3,6
 tribromo-, 945⁴⁶
 1,4 Naphthoquinone, tribromohydroxy
 512⁴⁷, 946⁴⁸
 C₁₂H₁₇Br₂O₂ 2-Naphthalenesulfonic acid 5,6,8
 tribromo- 1,4 dihydro 1,4 diketone
 K salt, 1516⁴⁹
 C₁₂H₁₇Br₂NO₂ 1,4 Naphthoquinone, amineotetra
 bromo-, 1516⁵⁰
 C₁₂H₁₇Br₂NO₂ 2(1) Naphthaleneone 1,3,5,6
 tetrabromo-1-nitro- 946⁵¹
 C₁₂H₁₇Cl₂NO₂ 2 Isomoloneacetic acid 4,5,6,7
 tetrachloro-1,3-diketo- 332⁵²
 C₁₂H₁₇Br₂N₃O₂ 2 Isomoloneacetonitrile 4,7
 dibromo-1,3-diketo- 3325⁵³
 C₁₂H₁₇Br₂O₂ Naphthoquinone dibromo 945⁵⁴
 916⁵⁵, 1517⁵⁶ compds with salts 487⁵⁷
 C₁₂H₁₇Br₂O₂ 1,4 Naphthoquinone dibromo
 hydroxy 512⁵⁸, 916⁵⁹
 C₁₂H₁₇Br₂O₂ Phthalic acid, 4,5-dibromo 946⁶⁰
 C₁₂H₁₇Br₂NO₂ 1,4 Naphthoquinone 8 amino-
 2,5-tribromo-, 1516⁶¹
 C₁₂H₁₇Br₂NO₂ 2(1) Naphthaleneone tribromo 1
 nitro-, 919⁶²
 C₁₂H₁₇Br₂ Naphthalene tetrabromo 395⁶³
 C₁₂H₁₇Br₂O₂ 2(1) Naphthaleneone 1,1,3,6
 tetrabromo 94⁶⁴
 2 Naphthol tetrabromo- 946⁶⁵
 C₁₂H₁₇Br₂O₂ 1,5 Naphthalenediol 4,6,8
 tetrabromo 512⁶⁶
 C₁₂H₁₇Cl₂N₃O₂ 2 Isomoloneacetonitrile 4⁶⁷
 dichloro-1,3-diketo 3320⁶⁸
 C₁₂H₁₇Cl₂N₃O₂ Pyridine 2,2 dithiobis[3
 chloro-5-nitro-, 426⁶⁹
 C₁₂H₁₇Cl₂O₂ 1,2 Naphthoquinone dichloro-
 compds with salts 487⁷⁰
 C₁₂H₁₇Cl₂NO₂ 2 Isomoloneacetyl chloride 4,7
 dichloro 1,3-diketo 3325⁷¹
 C₁₂H₁₇Cl Naphthalene tetrachloro- 1133⁷²
 C₁₂H₁₇Cl₂N₃O₂ 2 Isomoloneacetonitrile 4,5,6
 tetrachloro-1,3-diketo- 3325⁷³
 C₁₂H₁₇Cl₂O₂ 1(4) Naphthaleneone, 2,3,4,4
 tetrachloro- 3510⁷⁴
 C₁₂H₁₇FM₂O₂ Naphthalene fluorotribromo- 4045⁷⁵
 C₁₂H₁₇N₃O₂ Furoxan 3,4 bis(3 isosazolylicar
 bonyl), 4549⁷⁶
 C₁₂H₁₇Br₂N₃O₂ Naphthalene 1 bromo 4,5
 dinitro- 3329 404⁷⁷
 C₁₂H₁₇Br₂N₃O₂ 4,5 Naphthorhizazolesulfonic acid,
 6-bromo- 4710⁷⁸, 487⁷⁹
 C₁₂H₁₇Br₂O₂ 1,2 Naphthoquinone, bromo-
 945⁸⁰, 12
 C₁₂H₁₇Br₂O₂ 1,4 Naphthoquinone bromo
 hydroxy, 916⁸¹, 1517⁸²
 C₁₂H₁₇Br₂O₂ 2 Naphthalenesulfonic acid 8
 bromo 5,6 dihydro 5,6 diketo
 K salt 1517⁸³
 C₁₂H₁₇Br₂NO₂ 2(1) Naphthaleneone dibromo 1
 nitro- 945⁸⁴
 C₁₂H₁₇Br₂NO₂ 2 Isomoloneacetic acid 4,7
 dibromo-1,3-diketo-, 332⁸⁵
 C₁₂H₁₇Br₂ Naphthalene tribromo-, 395⁸⁶
 C₁₂H₁₇Br₂O₂ 2(1) Naphthaleneone 1,1,3 tri
 bromo- 94⁸⁷
 2 Naphthol tribromo 945⁸⁸, P 4281⁸⁹
 C₁₂H₁₇Br₂O₂ Naphthalenediol tribromo-, 512⁹⁰
 914⁹¹, 946⁹²
 C₁₂H₁₇Br₂O₂ 1,4,5 Naphthalenetriol, 2,6,8
 tribromo-, 512⁹³
 C₁₂H₁₇Br₂NO₂ Compd m 121⁹⁴, from 1,3,6-
 tetrabromo-2 naphthol and HNO₃ 916⁹⁵
 C₁₂H₁₇ClN₃O₂ 2 Isomoloneacetonitrile 5
 chloro-1,3-diketo-, 3325⁹⁶
 C₁₂H₁₇ClN₃O₂ 4,5 Naphthorhizazolesulfonic
 acid 5-chloro-, 487⁹⁷
 C₁₂H₁₇ClN₃O₂ 2 Isomoloneacetyl chloride 1,3
 diketo-4(und 5) nitro-, 3325⁹⁸
 C₁₂H₁₇Cl₂N₃O₂ 1- Naphthol 8 sulfonic acid,
 (chlorosulfonyl), sulfone, 4257⁹⁹
 C₁₂H₁₇Cl₂NO₂ Crotonic acid, α β -dichloro- γ -

- hydroxy γ phenylamino γ lactone
4
Isocitric acid α β -dichloro γ hydroxy- γ -
phenyl γ lactone 427³
Naphthalene α β -dichloro γ phenyl 422³
C₆H₄ClNO₂ 2 Isomol neacetate chloride, 5
chloro 1,3-d keto 332³
C₆H₄ClNO₂ 2 Isomol neacetate acid, 4,7
chloro 1,3-d keto 332³
C₆H₄ClNO₂ Hydantoin 1,3-dichloro 5-m-nitro-
benzal 400³
C₆H₄ClNO₂ Naphthalene 1,4-dichloro P 3014⁷
C₆H₄ClNO₂ 1 Naphthol 2,4-dinitro-
chloride 475³
C₆H₄ClO₂ 2(1) Naphthalene 1,1,3,3,4
pentachloro 3,4-dihydro- 946³
C₆H₄ClNO₂ Naphthalene fluorodinitro 454³
C₆H₄ClNO₂ 1 Benzofluorocarbonyl cyanide 174³
C₆H₄ClNO₂ 2 Isomol neacetate 1,3-d keto-
4 and 5 nitro 332³
C₆H₄ClNO₂ Naphthalene trinitro 486³
C₆H₄ClNO₂ 4 β -Naphthoazobenzene acid
6 nitro 487³
C₆H₄ClNO₂ 1 Indolecarboxylic acid α 7-di-
nitro 3149³
Naphthoic acid dinitro- 3349³
C₆H₄ClNO₂ Benzene α and β -dinitro- 453³
C₆H₄BrF₂N₂ 4 Bromo 1 naphthalene
diazonium tetrofluoride 4045³
C₆H₄BrCl Naphthalene 1 bromo 2 chloro
4,5 946³
C₆H₄BrClO₂ 2(1) Naphthalene 1 bromo 1
chloro- 946³
2 Naphthol 6 isomol chloro- 946³
C₆H₄BrF₂N₂ Naphthalene 1 bromo 4 fluoro-
4545³
C₆H₄BrNO₂ Naphthalene 1 isomol 4 (and 5)
nitro 3324³ 4045³
C₆H₄BrNO₂ 3 Naphthalenesulfonic acid 4
(bromomino) 3,4-dihydro 3 keto
A salt 3331³
C₆H₄BrNO₂ Hydantoin 1 bromo α o-
nitrobenzal 5400³
C₆H₄Br₂ Naphthalene dibromo 2714³ 2715³
3982³
C₆H₄Br₂N₂O₂ 2 Isomol neacetamide 4,7
d bromo-1,3-d keto- 332³
C₆H₄Br₂N₂O₂ Pyridine 2,2-dibromis(5-chloro-
4267³)
C₆H₄Br₂O₂ 2(1) Naphthalene 1,1 dibromo-
946³
2 Naphthol dibromo- 945³ 946³
C₆H₄Br₂O₂ Naphthalenediol dibromo- 512³
946³
C₆H₄Br₂O₂ Naphthalenediol dibromo- 512³
946³
C₆H₄Br₂NO₂ 1 Naphthol 3 sulfonic acid
8-amino 5-m-nitrobenzo- 1516³
C₆H₄Br₂O₂ 2(1) Naphthalene 1,1,3,4,5,7
hexabromo 3,4,6,7-tetrahydro-
946³
C₆H₄ClFO₂ 3 Naphthalenesulfonyl chloride
6-fluoro-454³
C₆H₄ClNO₂ Caneboxyl chloride 6-hydroxy,
9,11³
C₆H₄ClNO₂ 2 Isomol neacetate acid 5 chloro-
1,3-d keto- 332³
C₆H₄ClNO₂ 3 Naphthalenesulfonic acid 3
(and 4) (chloromino) 3,4-dihydro-
4 (and 5) keto- A salt 3331³
1 Naphthalenesulfonyl chloride, 4 nitro,
2009³
C₆H₄Cl₂ Naphthalene 2,6-dichloro- 4159³
- C₆H₄Cl₂N₂O₂ 2 Isomol neacetamide, 4,7-d-
chloro-1,3-d keto- 3325³
C₆H₄Cl₂N₂O₂ 2 Naphthalenesulfonic acid, 5,8-
bis(chloromino) - 5,8-dihydro-, K salt,
3331³
C₆H₄Cl₂N₂O₂ Pyridine, 2,2'-dithiois(5-chloro-
4267³)
C₆H₄Cl₂O₂ 2(1) Naphthalene 1,1 dichloro-
946³
2 Naphthol, dichloro- 946³
C₆H₄Cl₂O₂ 1 Naphthalenesulfonic acid, 5,8-
dichloro-, Na salt P 3014⁷
C₆H₄Cl₂O₂ 1,5 Naphthalene disulfonyl chlo-
ride, 3340³
C₆H₄Cl₂N₂O₂ Quinaldine, α 3,4 trichloro, 2430³
C₆H₄Cl₂N₂O₂ Naphthalene 1,2,3,4,5,8 hexachloro-
1,2,3,4-tetrahydro-, 1133³
C₆H₄Cl₂N₂O₂ 2 Pyrrolecarboxylic acid, 4
cyano 3,5 bis(trichloromethyl)-, Et
esters, 698³
C₆H₄ClNO₂ Naphthalene, 1 fluoro 4-nitro-
4545³
C₆H₄Cl₂ Naphthalene, 1,4 (and 1,5) difluoro-
454³
C₆H₄Cl₂N₂O₂ Pyridine 2,2'-dithiois(5-nitro-
4267³)
C₆H₄Cl₂N₂O₂ Isocyanic acid, 5-hydroxy-4
quinoxaline ester 954³
2 Isomol neacetate nitrile, 1,3-d keto-
3325³
C₆H₄Cl₂N₂O₂ Naphthalene, dinitro-, 416³ 4545³
C₆H₄Cl₂N₂O₂ 1,2,4 Diazonaphthalenesulfonic acid,
3985³
2 Naphthol 4 sulfonic acid, 1 diazo-
4797³
4 β -Naphthoazobenzene acid 4877³
C₆H₄Cl₂N₂O₂ 1 Naphthol dinitro-, 1571³ 1585³,
1910³
C₆H₄Cl₂N₂O₂ 2 Isomol neacetate acid, 1,3
d keto-4 (and 5) nitro, 3325³
C₆H₄Cl₂N₂O₂ Pyridine 4,5-naphthalene-1,4,6,8
(2,3,7,8) tetrone, 1821³
C₆H₄Cl₂N₂O₂ Pyridine, 2,2-dithiois(5-nitro-
4267³)
C₆H₄Cl₂N₂O₂ Hydantoin, 1 nitro-5-o-nitrobenzal,
5400³
1 Naphthylamine, 2,4,5 trinitro-, 4876³
C₆H₄Cl₂N₂O₂ 2 Indolecarboxylic acid, 3,6,7-
trinitro- Me ester, 3348³
Strychnol O-methyltrinitro-, 3319³
C₆H₄Cl₂O₂ See Naphthoquinone
C₆H₄Cl₂O₂ Juglone 1632³
1,4 Naphthoquinone 2-hydroxy, 945³,
1241³
C₆H₄Cl₂O₂ 1 Benzofuranyl glyoxylic acid, 1245³
Furd, dioxime, 261³
C₆H₄Cl₂O₂ Hemmelite acid, 4,5-methylene-
dioxo-, 3344³
Pyromellitic acid 1821³
C₆H₄BrF₂N₂ 1 Naphthalenediazonium base
fluoride, 4541³
C₆H₄Br₂N₂O₂ Naphthalene, 1 (and 2) boryl, 927³
C₆H₄Br₂ (See also Naphtholene, bromo-)
Benzene 1 (= bromovinyl) 2-ethyl-,
4517³
C₆H₄BrClNO₂ Acetic acid (4-bromo-5-
chloro-2-cyano-m-tolylmesito),
P 3667³
C₆H₄BrCl₂N₂O₂ 3 Pyrazolone 4 bromo-1
(2,4-dichlorophenyl) 5-methyl,
3342³
C₆H₄Br₂Hg Naphthalene, (bromomercury),
3979³

- C10H7BrO 2 Naphthol bromo 945^a 946^a
C10H6Br2O 1,2 Naphthalenediol 3 bromo, 945^a
C10H7BrN 1 Naphthylamine, 2,4 dibromo, 1516^a
C10H6BrNO3S Naphthalenesulfonic acid, amino-dibromo-, 1516^a
C10H6BrNO3S 1 Naphthol 3 sulfonic acid 6 amino 5 7-dibromo-(?) 1516^a
C10H6BrNO3S 2,7 Naphthalenedisulfonic acid 4 amino 1 3(2) dibromo 5 8 dihydroxy 1517^a
C10H6Br2NO Benzoxazole 6 acetamide 3 4 5-tribromo 1 methyl, 2129^a
C10H6Br2NO Benzoxazole 4 (N bromo acetamide) 5 5 6 6 tetrabromo 5 6 dihydro-1 methyl, 2129^a
C10H6Cl See Naphthalene chloro-
C10H6Cl2 Naphthalene (chloromercuri) 927^a, 928^a
C10H6Cl2O Lepidine 2 chloro 6 nitro 296^a
C10H6Cl2O 2 Isoindolinacetic acid 5 chloro-1 3-diketo 332^a
C10H6Cl2O Pyrazole 5 chloro 1 (2 4 di nitrophenyl) 3 methyl 1246^a
C10H6ClO 2 Naphthol chloro, 946^a 2138^a
C10H6ClO3S 2 Naphthol 3 sulfonyle chloride 2138^a
C10H6Cl2NO Quinaldine 3 4 dichloro 2430^a
C10H6Cl2NO Quinoxalinecarbinol 3 4 dichloro 2430^a
C10H6Cl2NO 4 Quinolol 3 chloro 2 (chloromethyl) 2430^a
C10H6Cl2N2NaO3 3 Pyrazolol 1 (2 4 dichloro phenyl) 5-methyl, Ne deriv 3342^a
C10H6F Naphthalene fluoro 806^a 4544^a
C10H6FO3S Naphthalenesulfonic acid fluoro and salts 4544^a
C10H6I Naphthalene iodo- 806^a
C10H6KN3O3S 5 Pyrazolol 3 2 7 1 4 benzothiadiazine 5 hydroxy 2 methyl 7 nitro-, 5-oxide K deriv 1247^a
C10H6KN3O3S 5 Pyrazolol 3 2 7 1 4 benzothiadiazine, 5 hydroxy 2 methyl 7 nitro-, 5-oxide K deriv 1246^a
C10H6NO3 2 Thierolaldehyde 4 phenyl 2722^a
C10H6NO (See also Naphthalene nitro-) 1 Benzofuranacetamide α hydroxy 1246^a
C10H6NO Naphthol, nitroso, 2423^a 2424^a
C10H6NO Quinaldic acid, 5713^a
C10H6NO (See also Quinoxaline acid) 1 Benzoluranyloxylamide, 1243^a
C10H6NO Clochomonic acid, 6 hydroxy, and salts 954^a
C10H6NO 1 Naphthol 2 nitro, 503^a
C10H6NO 5 Quinolacetic acid 8 hydroxy, and deriv, 2727^a
C10H6NO Phthalimide, N hydroxy, acetate 3983^a
C10H6NO3S 1 Naphthalenesulfonic acid, 4 nitro, 290^a
C10H6NO3S 2 Naphthol 3 sulfonic acid, 1 nitroso-, 2138^a
C10H6NO3S 2 Naphthol - 4 sulfonic acid 6 nitro 417^a
C10H6NO3S 2 Naphthol 3 6 disulfonic acid, nitroso- Ne salt, 261^a, 2933^a
C10H6N2O Imidazo[4,5-b]quinoxaline 2(3) one, 5400^a
C10H6N2O Hydantoin, 5-o-nitrobenzal, 5400^a
C10H6N2O2 Isoindolinacetamide 1 3 diketo 4 (and 5) nitro 332^a
C10H6N2O 2,1 3 Triazole[4 5 d]pyridazine 4 7 diene, 5 6 dihydro 2 phenyl, 1826^a
C10H6N See Naphthalene
C10H6As2NO2 2 Pyridol 5 5 arsenol-, P 4012^a P 4058^a
C10H6N2O 2(1) Pyridone, 3 3 arsenobis 4268^a
C10H6N2O Pyridine 2 6 diamino 3 bromo-5-(5-chloro 3 pyridylazo) P 4892^a
C10H6N2O Naphthylamine bromo 2352^a
C10H6N2O Quinoxaline 8-bromo 6-methyl 2427^a
C10H6N2O 1 Naphthol 2 amino 4 bromo-945^a
C10H6N2O Quinoxaline 4 bromo 6 nitro 954^a
C10H6N2O Isatin 5 bromo 4 7 dimethyl P 2736^a
C10H6N2O Indoxyllic acid 6 bromo- Meixner 1027^a
C10H6N2O3S Naphthalenesulfonic acid amino-bromo 1516^a
C10H6N2O3S 1 3 Naphthalenedisulfonic acid 7 amino bromo 1516^a
C10H6N2O3S Thiazole 2 (bromomethyl) 4 phenyl 2722^a
C10H6N2O3S Phenol 3 aminobromodinitro- di Ac deriv 2128^a 2129^a
C10H6N2O3S 4 Pyrazolol 1 (2 4 dibromo phenyl) 5-methyl 3342^a
C10H6N2O3S Benzoxazole 4 acetamide 6 6 dibromo-1 methyl 2129^a
C10H6N2O3S Quinoxaline 2 6 diacetamide 3 5-dibromo 2129^a
C10H6N2O3S Butyne acid β, γ dibromo-α keto-phenyl, 935^a 4851^a
C10H6N2O Quinoxaline 3 3 5-tribromo-1 ethyl, 293^a
C10H6N2O Diacetylamide 2 4 6 tribromo- P 9.3^a
C10H6N2O Quinoxaline chloromercurimethyl 6427^a
C10H6N2O Lepidine 6-chloro P 3668^a
C10H6N2O Naphthylamine chloro- 2352^a
C10H6N2O Quinolol 3 chloro 2 methyl, 2430^a
C10H6N2O Isatin, 5 chloro 4 7 dimethyl, P 2736^a
C10H6N2O 2 Quinoxalinecarbinol 3 chloro 4 hydroxy 2430^a
C10H6N2O Vanillic acid chloro 2 nitro acetate 94^a
C10H6N2O Thiazole (chloromethyl)phenyl, 952^a 2722^a
C10H6N2O 2 Pyridol 5 amino 3 (6-chloro 3 pyridylazo), P 4892^a
C10H6N2O 4 Pyrazolol 1 (2,4 dichlorophenyl) 5-methyl, and HCl 3342^a
C10H6N2O 3 Pyrazolol 1 (2 4 dichlorophenyl) 5-methyl 3342^a
C10H6N2O 3 (α β-dichlorovinyl), 5412^a
C10H6N2O Hydroquinone, bis(chloroacetate) 1814^a
C10H6N2O Pyrocatechol bis(chloroacetate), 1814^a
C10H6N2O Resorcinol bis(chloroacetate) 1814^a
C10H6N2O Acetic acid α α (2,5-dichloro-m phenylenedithioyl)-, 1510^a
C10H6N2O Anisyl chloride 3 (α, β, β trichloro ethyl), 5412^a
C10H6N2O 1 Naphthylamine 4 fluoro-, and salts 4543^a

- C₁₀H₇NO₂S Naphthalenesulfonamide, fluoro-, 4544¹, 4545
- C₁₀H₇N₂O Quinoxaline 4-sodo 6-methoxy 904¹
- C₁₀H₇N₂O Pyridine-6-diamino 3-sodo 5-o-sodo 3-pyridylazo) P 4892¹
- C₁₀H₇N₂O Hydroquinone bis (sodiumacetate) 1814¹
- Pyrocatechol bis (sodiumacetate) 1814¹
- Resorcinol bis (sodiumacetate) 1814¹
- C₁₀H₇N₂O Quinoxaline 1,2-dihydro 2-methylene-1-K deriv. 4884¹
- C₁₀H₇N₂O Quinoxaline L-deriv. 1829¹
- C₁₀H₇N₂O Bipyridine 960¹, 1623¹, 2725¹
- C₁₀H₇N₂O 5-Imidazyl, 3- α -soudol 5-one 2,3-dihydro 02¹
- 1-Naphthylamine 4-nitroso- P 4135¹
- 1-Pyrrolobenzimidazole 2,3-dihydro 701¹
- C₁₀H₇N₂O₂ Hydantoin 3-benzal 2-thio- 1508¹
- C₁₀H₇N₂O₂ Canthoinamide 6-hydroxy 954¹
- Forazan 3-benzoyl 4-methyl 3337¹
- Hydantoin 5-benzal 1508¹
- 5-Isoxazolecarboxamide 5168¹
- Lepidine 6-nitro P 3665¹
- 1-Naphthylamine -nitro- 2710¹
- Uracil 6-phenyl 516¹, 1630¹
- C₁₀H₇N₂O₂ Hydantoin 1-benzoyl 2-thio 1508¹
- C₁₀H₇N₂O₂ Barbituric acid α - α -dipropargyl P 4360¹
- Carbostyryl 4-methyl-4-nitro 296¹
- 2-Isoundolineacetamide 1,3-diketo 3329¹
- Phthalimide 4-amino Ac deriv 1511¹
- C₁₀H₇N₂O₂ Thiocyanic acid styrene ester P 1258¹
- C₁₀H₇N₂O₂ Quinoxalinedithione 1,2,3,4-tetrahydro 907¹
- C₁₀H₇N₂O₂ 5-Pyrazol[3,2- γ] 2,1,4-benzothiazine α -hydroxy 2-methyl-nitro- α -oxide 124¹
- C₁₀H₇N₂O₂ 5-Pyrazol[3,2- γ] 2,1,4-benzothiazine α -hydroxy 2-methyl-nitro- α -oxide 1240¹
- C₁₀H₇O (See also Naphthal) 1-Iodon 3-methyl 131¹
- C₁₀H₇O₂ Ketone methyl 1-thionaphthyl 5167¹
- C₁₀H₇O₂ Coumarin methyl 4542¹
- 1,2-Indandione 3-methyl 5161¹
- Indeneacetylic acid 5177¹
- Naphthalenediol 503¹, 512¹, 1241¹, 5159¹ P 5596¹
- C₁₀H₇O₂ 1-Benzofuranacetic acid 1248¹
- Cinnamaldehyde 3,4-methylenedioxy 4247¹, 4277¹
- Coumarin 2-methoxy 5413¹
- 1,3-Indandione 4-hydroxy 7-methyl, 2715¹
- Pyruvic acid, benzal, 930¹ and K salt 4851¹
- Umbelliferone methyl 2388¹, 2658¹
- C₁₀H₇O₂ 2-Naphthalenesulfonic acid, P 765¹
- Thionaphthenequinone 5-ethoxy, 5165¹
- C₁₀H₇O₂ Cinnamic acid α -carboxy 2143¹
- Cinnamic acid 3,4-methylenedioxy, 4277¹
- Coumarin, dihydroxy 4-methyl 4240¹, 4671¹
- Herminin 6-hydroxy, 3950¹
- 1,5-Indandione, 4-hydroxy 9-methoxy 2140¹
- 4-Isobenzoisouracboxylic acid, 3,2-dihydro-1-keto-, Me ester, 3327¹
- Phthalide, 4-hydroxy, acetate, 3325¹
- Scopoletin, 3980¹, 4249¹
- C₁₀H₇O₂S See Naphthalenesulfonic acid
- C₁₀H₇O₂S 1,5-Naphthalenedisulfonic acid, and di Na salt, 3340¹
- C₁₀H₇O₂S Hemipic anhydride, 934¹
- C₁₀H₇O₂S Acetic acid, α - α' -(diketocyclohexadienylidethio)bas-, 1510¹
- 1,5-Naphthalenedisulfonic acid, 1516¹
- C₁₀H₇O₂S 2-Naphtholsulfonic acid, 557, 474¹
- C₁₀H₇O₂S 2-Naphthol 3,6,8-trisulfonic acid, 2665¹
- C₁₀H₇AgN₂O₂ 1,5-Naphthylene dimercaptan, 3340¹
- C₁₀H₇AgN₂O₂ 2-Triazinemercaptan, 4-amino-6-p-aminyl, Ag deriv, 1531¹
- C₁₀H₇AgN₂O₂ 2-Triazinemercaptan, 4-amino-6-phenyl, Ag deriv, 2730¹
- 2-Triazinemercaptan, 4-amino 6-tolyl, Ag deriv 1531¹
- C₁₀H₇BrO₂ Boric acid, 1 (and 2) naphthyl, 927¹
- C₁₀H₇BrN₂O 4-Pyrazolol, 1 (β -bromophenyl)-5-methyl, 3342¹
- C₁₀H₇BrN₂O Quinone, 3,5-diacetamido-2-bromo- 2129¹
- C₁₀H₇BrN₂O Oxadiazole, 3,3-dibromo-1-ethyl, 2837¹
- C₁₀H₇BrN₂O 2-Pyrrolicarboxylic acid, 4-cyano 3-(hydroxymethyl)- δ -(tri-bromomethyl) Et ester, 695¹
- C₁₀H₇BrN₂O Benzyl alcohol α -(tribromomethyl)-acetate, 5054¹
- Hydrocinnamic acid β - β -tribromo-, Me ester 4235¹
- C₁₀H₇BrO Ether, butyl pentabromophenyl, 1819¹
- Ether, see butyl pentabromophenyl, 1819¹
- Ether, isobutyl pentabromophenyl, 1819¹
- C₁₀H₇ClN₂ 1-(β -Pyridyl)pyridinium chloride, HCl, 3995¹
- C₁₀H₇ClN₂O 4-Pyrazolol, 1 (β -chlorophenyl)-5-methyl, and HCl, 3342¹
- C₁₀H₇ClN₂O Benzothiazole, 5-chloro-1-V-methylacetamido- 104¹
- Benzothiazole, 1 (acetylmino) 5-chloro-2-methyl 104¹
- C₁₀H₇ClN₂O Pyridine 2,6-diamino 3-(6-chloro-3-pyridylazo), P 4892¹
- C₁₀H₇ClO 1-Iodonol, 5-chloro 4-methyl, P 1841¹
- C₁₀H₇ClO₂ Feric acid 5-chloro-, 94¹
- Vanillin 5-chloro-, acetate 94¹
- C₁₀H₇ClO₂ Acetic acid, α - α' -(4-chloro-methylenedioxythio)bas-, 1510¹
- C₁₀H₇ClO₂ Acetophenone, α -trichloro-4-hydroxy 2,5-dimethyl, 935¹
- C₁₀H₇ClO₂ Auroic acid, 3 (α , β , β -trichloro-ethyl), 8412¹
- C₁₀H₇ClO₂ Acetophenetide, 2,3,5,6-tetrachloro-, 1819¹
- C₁₀H₇FN₂O₂ Benzothiazole 5-fluoro 1-N-methylacetamido-, 4657¹
- Benzothiazole, 1 (acetylmino)- δ -fluoro-2-methyl, 4651¹
- C₁₀H₇IN₂O₂ Benzothiazole, 4-sodo-1-N-methylacetamido-, 4651¹
- C₁₀H₇IN₂O₂ Uracil, 6-phenyl, K deriv, 5167¹
- C₁₀H₇N (See also Naphthalene) Lepidine, P 2442¹, P 3665¹, P 3919¹
- Quinaldine 4270¹, 5713¹
- C₁₀H₇NO Acetonitrile, β -tolyl, 505¹
- Carbostyryl, methyl, 2727¹
- Echinopone, 4657¹

- 2 Naphthol, 1 amino-, HCl, 2129^a
 C₁₀H₇NO₃ 4 Quinolinesulfonamide 6 methoxy, 954^a
 2 Thiazolecarboxylic acid 4 phenyl 2722^a
 Thiazolo[*a*]quinoline 2(4)-one, 5,6-dihydro- 5169^a
 Thiocyanic acid *p*-methylphenacyl ester, 505^a
 C₁₀H₇NO₃ 3 Indolecarboxylic acid, 2 methyl, 2721^a
 Indoxyl, acetate, 2144^a
 — 1 acetyl 2144^a
 Isatin dimethyl, P 1545^a P 2157^a
 Pseudosatin 1 ethyl, 293^a
 2 4(1 3) Quinolindione 5(or 7) methyl P 265^a
 Succinamide *N* phenyl 2418^a
 α Tolualdehyde α cyano *p* methoxy, 4541^a
 C₁₀H₇NO₃ 5 Thiocyanic acid *p*-methoxyphenacyl ester 503^a
 C₁₀H₇NO₃ Isatin 5-chloro-7 methoxy 4 methyl, P 2736^a
 1(2) Naphthalenone, 3,4 dihydro 7 nitro P 1539^a
 Phthalide acetamide 3325^a
 Phthalimide *N* ethoxy (P) 3093^a
 C₁₀H₇NO₃ 3 Naphthalenesulfonic acid amino 1516^a
 Naphthionic acid 1516^a 2703^a
 2-Naphthol 3 sulfonamide 2139^a
 C₁₀H₇NO₃ Hemipimide 5342^a
 Opic acid oxime anhydride, 5342^a
 Pyruvic acid (α -aminobenzoyle) 2445^a
 C₁₀H₇NO₃ 5 Naphtholsulfonic acid amino- 417^a
 1516^a 1517^a 2139^a 3331^a
 4-Quinolinesulfonic acid 6 methoxy and *sals* 954^a
 C₁₀H₇NO₃ 2 Propanone, 1 (4 5 methylene-dioxy 2 nurophenyl) 3324^a
 Propiophenone 4 5-methylenedioxy 2 nitro- 3324^a
 C₁₀H₇NO₃ 3 Naphthalenedisulfonic acid, amino 1516^a 2703^a
 C₁₀H₇NO₃ 5 Naphtholdisulfonic acid amino- 1516^a and *K* salt 1517^a
 C₁₀H₇N₂NaO Acetamide *N* benzyl α cyano Na deriv, 3632^a
 Acetotoluidide, α cyano- Na deriv 2632^a
 C₁₀H₇N₂ Pyrimidine 2 amino-4-phenyl 1254^a
 C₁₀H₇N₂O Furan 3 (aminomethyl) (P) benzal deriv, 1248^a
 C₁₀H₇N₂O Thiazolo[*a*]quinoline 2 4,5,6 tetrahydro 2 nitroamino 5169^a
 C₁₀H₇N₂O 1 Benzoxofuranaldehyde, semicarbazone, 1246^a
 Cinchoninic acid, 6-hydroxy hydrazide 954^a
 Furan 3 (aminomethyl) (P), Bz deriv, 1248^a
 — 3 amino-4 *p* toluy, 3338^a
 — 3-benzamido-4 methyl 3623^a
 2,3 4 Oxidazole, 2 acetamide 5 phenyl 498^a
 4(3) Quinoxaline 3 acetamide, 4832^a
 C₁₀H₇N₂O 3 1,3 4 6 Thioamino 5 ol, 2 amino- Bz deriv, 3002^a
 C₁₀H₇N₂O 3 Benzothiazole, 1 *N* methylacetamide-5-nitro, 104^a
 Benzothiazoline 1 (acetylumino) 2 methyl 5 nitro, 104^a
 C₁₀H₇N₂S Phenyl mercaptan (4,5 dihydro 2 imidazolyl) thiocyanate, 1228^a
 C₁₀H₇N₂O Pyranobenzotriazine 4 5 dihydro 5 hydroxy 2 methyl 7 nitro-, 5 oxide 1244^a
 C₁₀H₇N O 3 2 *p* Tannemercaptan 4 amino 6 methyl, persate 705^a
 C₁₀H₇O₂ 1 3 Butanedione 1 phenyl, Rb deriv 2351^a
 C₁₀H₇ Benzene, divinyl 3973^a 4532^a
 1 3 Butadiene 1 phenyl 922^a 3972^a 4238^a
 C₁₀H₇AsCl₂NO₂ Succinamic acid *p* dichloro aryl 2705^a
 C₁₀H₇AsNO₂ 6 Lepid ucarsonic acid 2 by droxy, and *sals* 296^a
 C₁₀H₇As₂NO₂ 2 Pyridol o 5 arsenobis(3 amino P 3361^a
 C₁₀H₇BrClNO Butyraldehyde β chloro α keto, *p*-homophenylhydrazone 3311^a
 C₁₀H₇BrClN₂ 5 Benzothiazole 3 bromo 5 chloro 1 propylamino- 4881^a
 C₁₀H₇BrNO Oxidole 5 bromo 1 ethyl 293^a
 C₁₀H₇BrNO₂ Anisic acid 5-acetamido 2 bromo 1225^a
 C₁₀H₇BrN₂OS Benzothiazole 2 acetyl 1 amino 5-methyl dibromide *HB* 103^a
 C₁₀H₇BrN₂O₂ Phenol diacetamidodibromo- 2128^a 2129^a
 C₁₀H₇BrN₂Zn 3925^a
 C₁₀H₇BrO₂ Isobutyrophenone dibromo hydroxy, 689^a
 β Isodureylic acid 3 5-dibromo 940^a
 C₁₀H₇BrClN₂ 3 Benzothiazole 3 bromo 5 chloro 1 propylamino d bromide 4881^a
 C₁₀H₇BrNO₂ 3 Pyrolicarboxylic acid 2 acetyl 5 methyl Et ester tribromo deriv 3008^a
 C₁₀H₇Br₂ Benzene bis(*m* 2 dibromoethyl), 3973^a 4532^a 4533^a
 Toluene *p* propyl tetrabromo deriv 4541^a
 C₁₀H₇ClC₂N₂ 3587^a
 C₁₀H₇ClO₂ 2 Propanol 1 chloro 3 iodo sacrylate 3636^a
 Salicylic acid β chloro β iodonopropyl ester P 1233^a
 C₁₀H₇ClNO₂ Acetacetamide (*m* and *p*) chloro 2126^a
 C₁₀H₇ClNO₂ 3 Acetamide 5 chloro 2 mer capto acetate 931^a
 C₁₀H₇ClNO₂ Acetamide 2 chloro 4 by droxy, acetate 1505^a
 C₁₀H₇ClNO₂ 5 Acetic acid [(2 carbamyl 5 chloro-*m* tolylimercapto) P 2106^a
 C₁₀H₇ClNO₂ 1 Propanol 3 chloro *p* nitro benzoate 2709^a
 C₁₀H₇ClNO₂ 3 Pyrazolone 1 (5 chloro 2 pyridyl) 4 5-dimethyl P 2314^a
 C₁₀H₇ClN₂O Butyraldehyde β chloro α keto, *p* chlorophenylhydrazone 3311^a
 C₁₀H₇ClN₂O₂ Acetamide *N* *N* *m* phenylenebis(α -chloro 293^a
 C₁₀H₇ClN₂Zn 392^a
 C₁₀H₇ClO₂ 2 Propanol 1 3 dichloro- benzoate, 3636^a
 C₁₀H₇ClO₂ Butyrophenone dichloro 2 4 dihydroxy 504^a
 2 Propanol 1 3 dichloro, *p* hydroxy benzoate 3636^a sacrylate, 3636^a
 C₁₀H₇Cl₂NO 2 5 Xylenol 4 (β trichloro α isooethyl) and HCl, 935^a
 C₁₀H₇Cl₂NO₂ Acetamide 3 (α β , β trichloroethyl) 5412^a
 Pyrrole 3 acetyl 2,4 dimethyl 5 tri chloroacetyl, 3008^a 3009^a

- C H Cl N O Ru + H₂O 1452
 C H Cl N₂P 1 (4 Pyridyl)pyridinium
 chl r glaucon 3999
 C H Cu N O + 2H₂O Dialuric acid 5-methyl
 l levu 3396
 C H Hg N₂O₂ Acetamide N benzyl-o cyano-o
 l isoxymers 3619
 A c lude o cyano o (by isoxymers
 cur 3619
 C H Hg O₂ An aldehyde 3 (acetoxymercur)
 b drax 5
 Iso am l n 2 acetoxymercur 75
 C H₂ Hg O Benzene o-las(acetoxymercur)
 91 1832
 C H H₂N₂Zn 342
 C H₂ H₂N₂ 5 Imidaz[2 3 a]pyrindole 2 3
 d hydro 702
 Quinoxaline 7 1 d methyl 3001
 C H₂ N₂O Carbostyrl 6 amino 4 methyl
 and HCl 706
 J lndecarboxamide 7 methyl 21
 d l rax lo methyl l phenyl and
 l 342
 Quinoline 4 amine 6 methoxy and
 sol 933
 8 Quinolol = amine o methyl
 94
 C H₂ N₂O₂ Benzothiazole 7 acetyl l
 amino-methyl 183
 Hadantion 7-benzyl thio 150
 Phenol 7 (4 aminoethyl) 7 thia
 xolyl 9 2
 C H₂ N₂O₂ 2 Benzimidazolepropionic acid
 III
 Benzoxazole acetamido l methyl 1749
 Dipyrralol[1 2 o 1 2 d]pyrazine 5 10
 diol o 10 dihydro 2997
 Furan 3 p amine-4 methyl 9 6 3623
 Hydrouacil 6-phenyl 516
 C H₂ N₂O₂ 3 Hydantion 5 p hydroxybenzyl
 2 thio- 1008
 C H₂ N₂O₂ 1 2 3 6 Dioxiazine 4 p amyl
 5-methyl 9 6 3625
 Furan 3 p amyl 4 methyl 5-
 oxide 9 6
 Furan p-amylmethyl 3625
 Glyoxime benzoylmethyl 267
 C H₂ N₂O₂ 3 2 Naphthalenesulfonic acid 5 8-
 d amino- 3331
 C H₂ N₂O₂ Acetoacetamide w(and p) nitro-
 2124
 Phthalic acid N (carbonylmethyl)
 3325
 Quinone 2 6-diacetamido- 2129
 C H₂ N₂O₂ 3 Benzenesulfonic acid n (4 o d)
 hydri 5 keti 3 methyl l pyr
 xolyl 202
 2 Naphthol-4 sulfonic acid 1 6-diamino
 417
 C H₂ N₂O₂ Alanine N nitrobenzoyl 2118
 and Agl 2117
 8 Isoduryl aldehyde 3 5-dinitro- 424
 C H₂ N₂O₂ Quinone 2 5 d acetamido 3 6-
 d hydri 2129
 C H₂ N₂O₂ 1 2 4 5 Benzenetetril 3 amino-
 6-nitro- di Ac deriv 2129
 C H₂ N₂ 3 4 Thioacetamylamine 2 phenyl,
 and hydrochloride 932
 Thiazolo[4,5]quinoline 2 4 5 6 tetrahydro-
 2-amino- H₂ 5169
 C H₂ N₂ Pyrazino[2 3 b]quinoxaline 1 2 2 4
 tetrahydro, 3001
 C H₂ N₂O Bulkyonitrile, α, β - diketo, α-
 oxime, β phenylhydrazon, 36217
 C H₂ N₂O₂ 2 Triazomercaptan 4-amino-
 6-p-amyl, 1531
 1 2 4 Triazol 3(2)-one, 5 methyl 2-
 phenylthiocarbonyl, 3611
 C H₂ N₂O₂ 1, 3, 4, 6 Thiodiazin 5 - ol, 2-
 amino, compd with phenyl isothio-
 cyanate, 3002
 C H₂ N₂O₂ 3 - Pyrazinone, 4 5 dimethyl 1-
 (α-metro-2 pyridyl), P 2812
 C H₂ N₂O₂ Crotonaldehyde, 2,4-dinitrophenyl
 hydrazon, 3320
 C H₂ N₂O₂ 3 Isosanthone, 9 allyl-5 (carboxy
 methylmercaptan), 3965
 C H₂ N₂O₂ Acetophenone, 4,5 - methylene-
 dioxy 2 nitro, semicarbazone, 3324
 C H₂ N₂ 2 s Triazomercaptan, 4-amino-
 6-benzyl, 2130
 2 s Triazomercaptan, 4-amino 5-
 tolyl 1531
 C H₂ N₂O 2 Pyridol 5 (2 6 - diamino 3-
 pyridylazo) P 4802
 C H₂ O Δ² 2 Butenone, 4-phenyl, 939, 4867
 Crotonophenone(?) 2132
 Fiber 2 butyl phenyl 1815
 — 2 indenyl methyl, 2139
 Isocrotonophenone (?), 2132
 1(2) Naphthalenone 3,4 dihydro-
 243
 C H₂ O₂ (See also Isosafrole Saffrole)
 1 3 Butanedione 1 phenyl, 82
 Cinnamic acid, Me ester, 2143
 — methyl 2143
 m Duoxin, 2 phenyl 3967
 Ethenol 2 phenyl, acetate, 4867
 5 Homochromanone 1245
 1 3-Indenediol, 1 methyl, 1517
 1(?) Naphthalenone, 3,4 - dihydro - 2
 hydroxy 5159
 1 4 Naphthoquinone, tetrahydro-, P 3363
 C H₂ O₂ Cinnamic acid, hydroxy, Me ester,
 2143
 Ethylene oxide, 3,4 methylenedioxybenzyl,
 4277
 —, m methyl 8 (3 4 methylene dioxy
 phenyl), 4277
 —, piperonyl, 3324
 Ferulaldehyde, 4277
 Phenol, 2 4-diacetyl, 3634
 2 Propanone 1 (3,4 methylenedioxy-
 phenyl) 3324 4277
 Δ² 1 - Propenal 3 (3,4 - methylenedioxy
 phenyl), 2708
 Propiophenone, 3,4 methylenedioxy, 3324,
 4277
 Toluic acid, acetyl, 685, 2714
 C H₂ O₂ 1, 2 Butanedione, 1-(2,4-dihydroxy-
 phenyl), 1510
 2 3 Cresotic acid acetate 3893
 Fetic acid 4277
 Lactic acid benzoate, 492
 Malonic acid benzyl, 3230
 Resorcinol, 4 6-diacetyl, 1526, 4541
 C H₂ O₂ Acetic acid m (phenylenedithio)
 bio-, 1510
 C H₂ O₂ Opuncic acid 3325, 5897
 Phthalic acid, 3-methoxy, mono-Me ester,
 3980
 C H₂ O₂ Dimethyl ester, m 140-3', ol acid
 fenna ergastrol, 114
 m-Hemipic acid, 934
 Pterophthalic acid, di Me ester, 911

- C₁₀H₁₅S₂ 2, 2' Bithiophene 5, 5' dimethyl, 7931
- C₁₀H₁₁AsN₃O₂ 5 Benemidazolecarboxylic acid 1-allyl 2,3 dihydro-2 keto, P 1840²
- C₁₀H₁₁Br Benene 1 (n bromoethyl)-3 vinyl, 4533¹
- C₁₀H₁₁BrN₂O₂ Acetamide N, N' (4 bromo o phenylene)bis-, 426²
- C₁₀H₁₁BrN₂O₂ Phenyl diacetamidobromo- 2128², 2129¹
- C₁₀H₁₁BrN₂O₂ Hydrazinone 3,5 diacetamido-2 bromo- 2129¹
- C₁₀H₁₁BrN₂S Benzothiazole 3-bromo-1 ethylamino 5-methyl 4881¹
- C₁₀H₁₁BrO Ether, 2 bromo-1 naphthyl methyl 2139¹
- Indan 1 bromo 2 methoxy 1517¹
- C₁₀H₁₁BrO₂ β Isodurylic acid, 3 bromo- 940²
- 1 Propanol, 3 bromo-, benzoate 26²
- C₁₀H₁₁BrO₂ Acetic acid (3,4 dimethoxy phenoxy), bromo deriv 5899²
- C₁₀H₁₁BrNO Oxindole 1 ethyl dibromide 233¹
- C₁₀H₁₁BrNO₂ β Acetophenide, dibromo- 284², 1810², 1817¹
- C₁₀H₁₁BrNO₂ 3 Pyroledicarboxylic acid, acetyl methyl, Et ester dibromo deriv 2008²
- C₁₀H₁₁BrClN₂S Benzothiazole, 3 bromo 5 chloro 1 propylamino-, hydrotri bromide 4881¹
- C₁₀H₁₁Cl Benzene (γ chloro Δ³ butenyl) 923²
- C₁₀H₁₁ClN₂O Butyraldehyde β-chloro-α-keto-, phenylhydrazine 3311²
- Crotonaldehyde β amino-α (and β) chloro- 2128²
- C₁₀H₁₁ClN₂O₂ β Acetophenide 3 chloro 2 nitro, 2707¹
- C₁₀H₁₁ClN₂S Benzothiazole 5 chloro 1 propylamino- 4881¹
- C₁₀H₁₁ClO₂ 1 Propanol 3 chloro-, benzoate 287²
- α-Toluenic acid β-chloro Et ester, 2987¹
- α-Toluy chloride, α (methoxymethyl) 1814²
- C₁₀H₁₁ClO₂ Asaronyl chloride 5154²
- C₁₀H₁₁ClO₂ Acetic acid (3,4 dimethoxy phenoxy), chloro deriv, 5899²
- Glycerol 1 (3 chloro 4 hydroxybenzoate), 3636¹
- C₁₀H₁₁Cl₃ Toluene m (β γ γ trichloropropyl) 3979¹
- C₁₀H₁₁ClO₂ Benzyl alcohol 3 ethoxy-4 hydroxy α (trichloromethyl) P 5678²
- C₁₀H₁₁Cl₂N₂P₂ 5109²
- C₁₀H₁₁Cl₂N₂S₂ 5109²
- C₁₀H₁₁FN₂ Cyanamide, ethyl (β fluorobenzyl), 924²
- C₁₀H₁₁IO₂ Glycerol, 1 (5-iodosabetyl), 3636¹
- C₁₀H₁₁N Iodole dimethyl, 2731²
- Isodurylonitrile 938¹
- Δ³-Pyrimine, 2 phenyl, 2997²
- α-Toluenitrile, 2 4-dimethyl, 5154²
- C₁₀H₁₁NO Acetamide α-vinyl, 4866²
- Δ³-2-Butenone 4 phenyl, oxime, 5141¹
- Tryptophol, 514²
- 2,6-Xylenonitrile 4 methoxy, 938²
- C₁₀H₁₁NO₂ 1(2) Benzothiazolone, 2 ethyl 5 methyl, 5189¹
- C₁₀H₁₁NO₂ 5-Homochromanone, oxime, 1245²
- C₁₀H₁₁NO₂ Lactamide, thio-, benzoate, 2708²
- Mandelamide, thio- acetate 2708²
- C₁₀H₁₁NO₂S₂ Carbamate acid homopiperonyl dithio- N/H, salt 4241¹
- C₁₀H₁₁NO₂ Alamine, N benzoyl, 2118¹
- Asaroneitrile, 5154¹
- 2 Butanone, 1 (2,4 d hydroxyphenyl) 1 imino-(?) HCl 1510²
- β Isodurylaldehyde 3 nitro, 4247¹
- Pyroledicarboxylic anhydride 3 5 dimethyl 3647²
- α-Toluenic acid 6 acetyl, oxime, 2714¹
- C₁₀H₁₁NO₂ 2 5 Pyroledicarboxylic acid 4 formyl-4 methyl di Me ester 962¹
- Et ester 962²
- 2 4 Pyroledicarboxylic acid 5 formyl 3 propyl 3910²
- C₁₀H₁₁NO₂ Acid m 16-7" from γ β diketone benzoic acid and HNO₃ 3517¹
- Benzoic acid 2 5 dimethoxy 2 nitro Me ester 1510² 3339¹
- C₁₀H₁₁NO₂ Acetic acid (3 4 dimethoxy phenoxy) nitro deriv 5895¹
- C₁₀H₁₁NS₂ Thiocyanic acid methyl(methyl mercaptolbenzyl) ester P 3 3²
- C₁₀H₁₁N₂ 1 3 4 Triazole 1 2 dimethyl 6 phenyl P 4587²
- C₁₀H₁₁N₂O Quinolone 4 hydrazino-6 methoxy 945²
- O₂H₁₁N₂O₂ Benzothiazoline 2 ethyl 1 (m isosomene) 5-methyl 5189²
- 1 3 4 6 Thiodiazin 6 ol 2 amino- Me deriv 3002²
- 2 toluene 3002¹
- C₁₀H₁₁N₂O₂ Hydrocyanic acid, β methoxy, 5485²
- C₁₀H₁₁N₂O₂ Crotonaldehyde β amino m (and β) nitro- 2128²
- Pyruvohydrazinamide, oxime Ba deriv, 1622²
- C₁₀H₁₁N₂O₂ Anisaldehyde 2 hydroxy, semi oxamazone, 1507¹
- Benzaldehyde 4 hydroxy 2 methoxy, semioxamazone 1507¹
- 4 Chromanone 7 8 dihydroxy semi carbasone 1534²
- Glycine [(3 pyridylcarboxyl)glycyl] 3000¹
- Propionamide α (m nitrobenzamide), 2117² 2118²
- C₁₀H₁₁N₂O₂ Phenol 2 4-diacetamido 6 nitro-, 2129¹
- C₁₀H₁₁N₂S 2(3) Thiazolone 4 β-tolyl, hydrazine acid in HCl, 1532¹
- 3 Thiazole 3 (ethylmercapto) 5 phenyl, 2119¹
- C₁₀H₁₁N₂S 3 Triazine 2,4 diamino 6 benzyl, acid salts 948²
- 3 Triazine 2,4 diamino 6 m (and β) tolyl acid salts 947² 948²
- C₁₀H₁₁N₂O Furan 3 acetyl 4-amino, phenylhydrazine 3622²
- C₁₀H₁₁N₂ Pyridine 2 5 diamino 3 (6 amino-3 pyridyl)acetyl, P 4592¹
- C₁₀H₁₁N₂O₂ 1 2 5 Triazole 3,4 dicarboxylic acid 1 phenyl, dihydrazide, 1826²
- C₁₀H₁₁O₂ P₂ S₂ 1 Butadiene phosphonic acid 4 phenyl 4239¹
- C₁₀H₁₁ (See also Tetralin)
- Benzene, Δ³-butenyl 3972¹
- Dicyclopentadiene, 1809², 5097²
- Methano[4 7]undecene, 3a,4,7,7a - tetra hydro-, 1809², 1507²
- Naphthalene, tetrahydro-, 1717²

- styrene α ethyl 1817⁴
 C₆H₅AlN₂O 566⁴
 C₆H₅Al₂NO₂ Arsanilic acid \ glycolyl acetate P 478³
 Succinamic acid β arsono- 270³
 C₆H₅BrNO 44 Acetylaldehyde 6 bromo- 491⁴
 1 obutyramide β bromo 1811⁴
 C₆H₅BrNO₂ α Acetamide 4 bromo 5-methyl 1221³
 Cumic acid 2 amino- β -bromo- 1502¹
 C₆H₅BrNO₂ Carbanilic acid 3 bromo-2 hydroxy-methyl Et ester 5468³
 C₆H₅Br₂ Benzene α bis(a bromoethyl) 463³
 Benzene (bromo α bromomethyl propyl) 181³ 1837⁴
 C₆H₅Br₂ClN₂S Benzothiazole α chloro 1 propylamino hydrotetrahromide 4881
 C₆H₅Br₂N₂S Benzothiazole 3 bromo 1 ethylamino 1 methyl hydrotetrahromide 4881
 C₆H₅ClNO Acetamide chloro \ phen ethyl 1030
 C₆H₅ClNO₂ Alanine \ (6 chloro m tolyl) 3633¹
 2 Pyrrhoaldehyde 5 chloroacetyl 3 ethyl-4 methyl 3009
 C₆H₅ClNO₂S Ethyl 2 methylbenzothiazolum perchlorate 169¹
 C₆H₅ClNO₂ Ketone 4 ethyl 3 5 dimethyl 2 pyrrhoaldehyde 3008
 C₆H₅ClNO₂ β Phenetidine 4 (8 isobutyl α hydroxyethyl) P 511¹
 C₆H₅HgO₂S Toluic acid β (ethylmercur mercapto) 1821³ 490³
 C₆H₅IN₂ Benzimidazole 2 propyl 1800¹
 Benzimidazole 2 propyl, 1800¹
 Cyanoamide benzylethyl 92³
 C₆H₅IN₂O Benzyl alcohol α (4 5 dihydro 2 imidazolyl) 702¹
 1 Naphthylamine 5 6 7 8 tetrahydro- 4 nitro- α P 413³
 Nicotinamide 4 6 diethyl 1 2 dihydro- 2 keto 150¹
 Δ^4 Oxazolin 2 aminoethylphenyl 3617⁴
 C₆H₅N₂O₅ Benzothiazole 5 ethoxy 1 methylamino- 104¹
 Benzothiazoline 5 ethoxy 1 imino 2 methyl 104¹
 C₆H₅N₂O₅ Pyrazole 2 β diacetyl 3 6-dimethyl 3010¹
 C₆H₅N₂O₅ (See also Dial)
 Acetamide \ (β nitrophenethyl) 452²
 Alanine \ (aminoacetyl) and HCl 211³
 Barbituric acid 5 isopropyl 5 propargyl P 436³
 -, 5-propargyl 5 propyl P 436³
 Carbanilic acid β -acetamido- Me ester 5404¹
 Glycose (pyridylcarboxyl) Et ester 2999³ 3000¹
 Propiophenone, α methylamino m nitro P 3671¹
 2 - Pyridylcarboxylic acid 4 cyano 5-(hydroxymethyl) 3 methyl Et ester 89¹
 Succinamic acid α -amino- 701¹
 C₆H₅N₂O₅ β Acetphenetide nitro- 2706³ 2707¹
 Carbanilic acid, β -nitro- isopropyl ester 2658¹ Et ester 2658¹
 Hydroquinone, 2 6-diacetamido-, 2129²
 Nitro, phenylcarbamoyl deriv. 1485³
- C₆H₅N₂O₅S Glycose, N - (α -nitrophenylmercapto), Et ester, 491¹
 C₆H₅N₂O₅ 2,5 - Pyridylcarboxylic acid, 3-formyl-4-methyl, di Me ester, oxime 962¹
 C₆H₅N₂O₅S Asparagine, N^o (phenylsulfonyl), 2616³ and Na salt 279¹
 C₆H₅N₂O₅S Alanine V (α -nitro α -tolylsulfonyl), 211³
 C₆H₅N₂O₅ 2 β Cymenecarboxylic acid, di nitro- 500¹
 C₆H₅N₂S Benzothiazole, 1 ethylamino 5-methyl 4881¹
 Benzothiazoline, 2 ethyl 1 imino 5-methyl, and HBr, 5169¹
 1 Indolecarboxamide, 2 - methylthio, 5169¹
 1 Quinoxalocarboxamide, 1,2,3,4 tetrahydro- 5169¹
 C₆H₅N₂O₅S Uric acid 9 allyldimethyl- β -thio- 2966³
 C₆H₅N₂O₅S Caffeine 8 (carboxymethylmercapto), and Na salt, 3966¹
 Isoxanthine 8 (carboxymethylmercapto) 9 propyl, 3066¹
 C₆H₅N₂O₅S α Purinhydantoin 1 - acetyl 1 3,3 trimethyl, 3965¹
 C₆H₅N₂O₅ Alacranine, picrate, 279¹
 Creatine picrate 279¹
 C₆H₅N₂O₅ (See also Amidole)
 Acetophenone, 3 4-dimethyl, 4867¹
 - β ethyl 4010¹
 Benzyl alcohol, α allyl, 3978¹
 2 Butanone, 4 phenyl, 1799¹, 4500¹
 Δ^1 2 Butenol, 4 phenyl, 922¹, 923¹
 Bullyphenone, 4394¹
 α Cresol 6 isopropyl, P 517⁴, 5392¹
 Dicyclopentadiene, oxide, 1807¹
 Eucagole 4277¹
 Ether α ethylenebenzylmethyl 2687¹
 - ethyl α methylenebenzyl, 2687¹
 -, isopropenyl m tolyl 5392¹
 - methyl γ -phenylallyl 2132¹
 β Isodurylaldehyde, 4249¹
 1 Naphthol 1 2 3,4 tetrahydro-, P 2439¹
 Propiophenone β methyl, 4540¹
 C₆H₅O₅ (See also Eugenol /irogenol)
 Acetophenone, methoxymethyl, 4867¹
 Benzene, 1,2 methylenedioxy 4 - propyl-, 4247¹, 4277¹
 Benzene acid isopropyl ester, 3311¹, 3620¹
 Butyric acid, γ phenyl, 4903¹
 Butyropheneone, hydroxy 1228¹
 α γ α , γ Decatetrazene acid, and salts, 583¹
 Camacol, 5-allyl 4277¹
 -, 5-propenyl, 4277¹
 Hydrocinnamic acid β -methyl, 489¹
 Isobutyropheneone hydroxy, 689¹
 Isocyanibitol P 2154¹, 5159¹
 Naphthalenediol, 1,2,3,4 tetrahydro-, 1761¹, 1795¹
 2 Propanone, 1 β -amyl, 691¹
 Quinone 2,6-diethyl, 5410¹
 Thymoquinone, 4538¹
 α Toluic acid, Et ester 295³
 C₆H₅O₅ Acetophenone 2,4-dimethoxy, 515¹
 Benzaldehyde 3-ethoxy-4-methoxy, 3326¹
 Bullyphenone, 2,4-dihydroxy, 504¹
 Cameryl alcohol, 1901¹, 4277¹
 Hydrotetrazol acid, β methoxy, 1814¹, 2986¹
 Hydroquinone acid, α -methoxy, 2133¹
 Isobutyropheneone, 2,4-dihydroxy-, 4565¹

- Mandelic acid Et ester, 1848³, P 5558³
 Nipazol, 1638³
 1 Propazol 3 (3,4 methylenedioxy phenyl) 4247¹
p Tolualdehyde, 3 5-dimethoxy 285³
 C₁₀H₁₀O₂ (See also Camphoridic)
 Acetophenone, 4 hydroxydimethoxy, 3324¹ 4250³
 Benzaldehyde trimethoxy 2134³ 4669³
 Benzoic acid, 3,5-dimethoxy, Me ester 1816¹
 Glycerol, benzoate, "M", 3536³
 Salicylaldehyde ethoxymethoxy, 707³
 Sparassol 1552¹
 C₁₀H₁₀O₂ Acetic acid, (3,4-dimethoxyphenoxy) 5898³
 Azaric acid, 2957¹, 4869¹, 5154¹
 Benzoic acid trimethoxy 10³ 4669³
 Glycerol 1 *p* hydroxybenzoate 3638³
 — 1 salicylate 3638³
 Mandelic acid, dimethoxy 1510³ 3339³ 5898³
 C₁₀H₁₀O₂ Lactic acid, toluenesulfonate 492³
 2(or 5) γ Terpinosulfonic acid, 3 6 di keto, K salt 4088³
 m Toluenesulfonic acid 4 hydroxy Me ester acetate 3324¹
 C₁₀H₁₀O₂V 1454³
 C₁₀H₁₀As₂N₂O₅ Benzimidazolearsonic acid 2 3 dihydro 2 keto 1 propyl P 1840³
 C₁₀H₁₀As₂N₂O₅ Arsanilic acid, N (β carbamyl propionyl) and salts 2705¹ c
 Arsanilic acid N (methylcarbamylacetyl) and Na salt, 5407¹
 C₁₀H₁₀As₂N₂O₅ Throphene tetrahydro-compd with PbAs₂Br₂ 263¹
 C₁₀H₁₀Br₂N₂O₅ (See also Vofel)
 Barbituric acid δ β bromoisalt 1 isopropyl Co salt P 4863
 C₁₀H₁₀Br₂N₂O₅ Uracil 5 bromo 3 glucoside-84¹
 C₁₀H₁₀BrO Ether α (α bromoethyl)benzyl methyl 2657¹
 Ether, α (bromomethyl)benzylethyl 2657¹
 Isodural, bromo- 4,43¹
 C₁₀H₁₀BrS Thiophene tetrahydro- pheno bromide 283¹
 C₁₀H₁₀Br₂NO *p* Phosetidine 2 6 dibromo N, N-dimethyl 1817¹
p Phenetidine 2 6 dibromo N ethyl 1817¹
 C₁₀H₁₀Br₂N₂S Benzothiazole 1 ethylamino 6 methyl hydroxetetrabromide 4881¹
 C₁₀H₁₀Cl Isodurene, α -chloro- 5154¹
 C₁₀H₁₀ClN₂ Pyridine 2 chloro 3 (1 methyl 2 pyrrolyl), 2149¹
 C₁₀H₁₀ClN₂S Urea α (β chlorophenyl) β propylthio 4881¹
 C₁₀H₁₀ClN₂O₂ Theobromine 1 (β chloro propyl), 1031¹
 C₁₀H₁₀ClO Carvacrol, 5-chloro- P 3038³
 C₁₀H₁₀Cl₂NO Ketone chloromethyl 4 ethyl 3 5 dimethyl 2 pyrrolyl, chloro derm 3009³
 C₁₀H₁₀LN₂O Urea [α (α isodortetylbenzyl) (?) 3617¹
 Urea (δ keto α methylphenethyl) (?) 3617¹
 C₁₀H₁₀N Aniline, N-isopropenyl N methyl, 282¹
 Naphthylamine, tetrahydro 500³ 1571¹, 3081¹ 4053¹ 4613¹ 4933¹
 C₁₀H₁₀NO Butyrophenoxy, oxime, 3329³ 5141³
 α γ , γ Decatetrazenamide, 684¹
 Hydroxycinnamide, α methyl, 4248³
 Indanol methylamino, 2139¹ and HCl, 2139¹
 Isobutyrophenoxy oxime, 5141¹
 α -Tolamidine acid, Et ester, HCl, 2139¹
 C₁₀H₁₀NO₂ Carbamic acid (β methoxyphen ethyl)dithio- NH₂ salt, 4241³
 C₁₀H₁₀NO₂ (See also Pteracene)
 Acetanilide α (δ hydroxyethyl) 4669³
 2,4 Acetoxyide, hydroxy, P 215³
 Butyric acid, α -hydroxy, 1818¹
 Cumaric acid 3-amino-, 1502¹
 Glycine, phenethyl ester 1814¹
 Hydrocinnamic acid, β -methylamino-, 516¹
 Isobutyrophenoxy α -hydroxy- oxime 689¹
 4 Isoquinuol 1 2 3 4 tetrahydro 5-methoxy and salts 515¹, 516¹
 Picolinic acid 6-butyl and derms 3005³
 2 Pyrrolidyl-hyde 3 5 dimethyl 4 propionyl 3010¹
 C₁₀H₁₀NO₂S Cysteine benzyl, 79¹
 C₁₀H₁₀NO₂S Homopiperonylamine, 5-methoxy 2881¹
 Ketone 5 hydroxy 2 4 dimethyl 3 pyrrolyl methyl acetate 4009³
 Phenol 2 6-diethyl 4 nitro- 5409³
 1 Pyrrolbutyric acid, γ keto Et ester 1821¹
 Pyrrolcarboxylic acid acetyl methyl Et ester 3008¹ 4
 — dimethylpropionyl 3010¹
 2 Pyrrolglyoxylic acid 3,5 dimethyl Et ester 3008¹
p Tolualdehyde 3,5 dimethoxy oxime, 254¹
 C₁₀H₁₀NO₂S Acetic acid (δ amino m phenethyl-mercapto), P 1009¹
 C₁₀H₁₀NO₂ Asaronamide 5154¹
 Benzamide trimethoxy, 10³
 Carbamic acid 3,5-dimethoxy Me ester, 1816¹
 2,4 Pyrrolidicarboxylic acid 5 methyl 3 propyl, 3010¹
 C₁₀H₁₀NO₂S Alanine, N *p* tolylsulfonyl 2113¹
 C₁₀H₁₀NO₂S 2 *p*-Cymenesulfonic acid 6-nitro-, 400³
 C₁₀H₁₀N₂O Acetone 2 phenylsemicarbazone 2701¹
 Anabazone nitroso- 3347¹
 2 Propionate 1 phenyl, semicarbazone 1818¹
 1 Pyrrolidinesemicarbazone 2 (3 pyrrolyl) and chloroethane 300¹
 C₁₀H₁₀N₂O₂ 1 2 4 Benzecinnamic Δ^1 , N₂-disubst P 4555¹
 Lactaldehyde, β phenyl, semicarbazone, 1820¹
 Melosamide α amino α benzyl 1493¹
 C₁₀H₁₀N₂O₂ Barret, 1 *p*-phenetyl, 936¹
 C₁₀H₁₀N₂O₂S Benzenesulfonic acid m nitro-*ac* butyldenehydrazide 2702¹
 C₁₀H₁₀N₂O₂S Sulfamic acid, N (N glycol glycol), 4288¹
 C₁₀H₁₀N₂O₂P, Isonic acid, 308³, 3083³
 C₁₀H₁₀N₂O₂, Adenosine, 3083¹, 4626¹
 C₁₀H₁₀N₂O₂ Sec Guanosine
 C₁₀H₁₀ (See also Cymene)
 Benzene, butyl, 1717¹, 4751¹, 5323¹, 5890¹
 —, *sec* butyl, 1717¹
 —, *tert* butyl, 1717¹

- $C_{10}H_{14}BeO$ Epicamphos, becamo-, 3156²
 $C_{10}H_{14}BeO_3$ α -Camphansulfonic acid, α bromo-, 5334¹
 $C_{10}H_{14}ClN_2$ Pyridine, 3 (chloro 1 methyl aminoethyl), 599²
 $C_{10}H_{14}ClO_4$ Compd, b_m 115-5°, from mogo Ma carophyllenate and SOCl₂ 2983²
 $C_{10}H_{14}ClO_5$ α Camphosulfonyle chloride, 3322²
 $C_{10}H_{14}ClO_6$ Methanetricarboyleic acid chloro tri Et ester, 3625²
 $C_{10}H_{14}HgI_2$ Diethylphenylsulfonium mercuri trisulfide 699²
 $C_{10}H_{14}InCl_2$ Pyridine, 5 isode 2 isomethyl amino- P 224²
 $C_{10}H_{14}N$ (See also *Amaline*, *diethyl*)
Amaline, N butyl, *HBr*, 424¹
 — *N* isobutyl, *HBr*, 424¹
Benzylamine N-ethyl β methyl and *HCl*, 924²
Camphosulfonitrile 424¹
 Δ^1 Cycloheptanitrile, 2 4 5 trimethyl P 2436² P 4591²
Isoduridine, 4533²
Mesidine N methyl 4533²
Propylamine N methyl γ phenyl, and *HCl*, 2709²
 $C_{10}H_{14}NO$ (See also *Ephedrine* *Ephedrine* *Hordenine*)
Benzyl alcohol, α (α aminomethyl) β methyl, 146²
 — 2-dimethylamino 5 methyl 1813²
Cyclopentanone 2 cyclopentylidene-
 oxide 2420¹
 2 Indanitrile, hexahydro 2 hydroxy 3383¹
Kelone, 4 ethyl 3 5 dimethyl 2 pyrryl methyl 3005²
 —, ethyl 2 ethyl 4 methyl 2 pyrryl 3356²
Phenethyl alcohol α dimethylamino 1810²
Phenethylamine β methoxy N methyl P 2153¹
Phenol β sec butylamino *HCl*, 2684¹
 —, β -(β -dimethylaminoethyl) 2200²
 1 Propanol 2-*N* methylamino- 1813²
Pseudoephedrine, 1031¹
 2 Pyrrolaldehyde, dimethylpropyl 3009²
 3010²
 $C_{10}H_{14}NO_2$ 1,1 Cyclopentanedecetamide 2 methyl 4234²
Ephedrine, β -hydroxy, P 4286²
Phenethylamine 3 4 dimethoxy, 2981²
calc, 5406²
 1,3 Propanediol 2 methylamino 1 phenyl and *HCl* 2122²
 $C_{10}H_{14}NO_3$ Benzotrisulfonamide, N butyl 2704¹
 $C_{10}H_{14}NO_4$ Benzylamine, trimethoxy salt 1226¹ *calc*
 4 Camphensulfonacetic acid, 3 keto, oxime, 1822²
Ephedrine 3 4 dihydroxy 3072²
 3- Pyrrylcarboyleic acid 2 α hydroxy ethyl 5-methyl, Et ester, 3008²
 $C_{10}H_{14}NO_5$ Benzotrisulfonamide N (γ hydroxypropyl) N methyl, 1813²
 $C_{10}H_{14}N_2$ Pyridine 2 amino 4 Δ^1 *iso* hexenyl, 1254²
 $C_{10}H_{14}N_2O$ 2 Benzimidazole, 5 amino-2 3 hydroxy 1 2 3 trimethyl, and hydrochlorides 4263¹
 $C_{10}H_{14}N_2O_2$ 3- Pyrrylcarboyleic acid, 5 acetyl 2 methyl, Et ester, hydrazone, 3008²
- $C_{10}H_{14}N_2O_3$ 3 Hydantoinacetic acid pepsinide 4228²
 $C_{10}H_{14}N_2O_4$ Biquanide α (α methylbenzyl) and *calc*, 4334²
 $C_{10}H_{14}N_2O_5$ Burea, 8 amino 1 ethyl 2 thio 3031¹
 $C_{10}H_{14}N_2O_6$ Histidine aspartic 5903²
 $C_{10}H_{14}OP$ Phosphine oxide dimethyl 2, 5-xylyl, 2702¹
 $C_{10}H_{14}O_2P$ 1 Butanephosphonic acid 4 phenyl, 4239¹
 $C_{10}H_{14}P$ Phosphine dimethyl 2 5 - xylyl and compd with *HgCl_2* 2702¹
 $C_{10}H_{14}$ (See also *Camphene* *Limonene* *Aspinene* *Isarag*)
Camene, 5413²
Chamene 2424¹
 Compd b 170-5°, from brown-coal gas benzene 3463²
Cyclopentane cyclopentylidene 2420¹
Cyclopentene cyclopentyl 2421¹
 1 Decen 4 ene 2112² 2421¹
Dipentene 1717² 3817²
Diprene 3139
Isocamene 2424¹
Oxocamene 1612¹
 α Phellandrene 1234¹
Sabinene 3981¹
Spiro[bicyclo[3.1.0]hexane 6.1 cyclopentane] 2420¹
Terpinolene 1512²
Tricyclo[2.2.1.0]heptane, trimethyl 3640¹
 $C_{10}H_{14}NO_2$ α -Acetamide N butyl 4563¹
 $C_{10}H_{14}AuClN$ Benzyltrimethylammonium chloraurate 5150¹
 $C_{10}H_{14}AuClNO_3$ Ethyldimethyl(phenylsulfon)ylammonium chloraurate 5150¹
 $C_{10}H_{14}BrNO_2$ Prolone 1 (α bromoisovaleryl), 77¹
 Prolone 1 (α bromoisovaleryl) 77¹
 $C_{10}H_{14}BrNO_3$ Alanone N (*N* [*N* (α bromopropionyl)glycyl] glycyl) 2741¹
Glycine N [*V* [*V* (α bromopropionyl) glycyl] alanyl] 2741¹
 $C_{10}H_{14}Br_2$ Penane dibromo 500²
 $C_{10}H_{14}BrO_3$ Pelergonic acid, dibromoketo-, Me ester 71¹
 $C_{10}H_{14}Br_2O_2$ Subene acid α [β -dicomo- α [β dimethyl] 919¹
 $C_{10}H_{14}ClNO_3$ Ethyldimethyl(phenylsulfon)yl ammonium chloride 5150¹
 $C_{10}H_{14}ClNO_4$ Benzyltrimethylammonium perchlorate 5150¹
 Ethyldimethylphenylammonium perchlorate 1502¹
 $C_{10}H_{14}ClNO_5$ Ethyldimethyl(phenylsulfon)yl ammonium perchlorate 5150¹
 $C_{10}H_{14}ClNO_6$ Alanone N [*N* [*N* chloro acetylalanyl]glycyl], 2741¹
 $C_{10}H_{14}Cl_2$ Piane dichloro, 506²
 $C_{10}H_{14}HgN_2O_4$ 5108¹
 $C_{10}H_{14}HgN_2$ Ethyldimethylphenylammonium mercuritrisulfide 639¹
 $C_{10}H_{14}HgN_2N_2S_4$ 5108¹
 $C_{10}H_{14}JN$ Ethyldimethylphenylammonium iodide 1502¹
 $C_{10}H_{14}N_2$ Camphene 2-diazo-, 507¹
 Cyclopentanone, 2 cyclopentylidene, hydrazone, 2420¹ *c*
Hydrazine 2 β -cymyl, 122² *c*
 β Phenylendiamine, *N*, *N*, *N'*, *N'* tetra methyl, 5772¹

- C₁₀H₁₆N₂O** 1 Butanol 4 methylamino 1 (3 pyr dy) 300
 Ephedrine amino- P 1764¹ P 2574²
 2 Propanol 1 amino 3 λ methylamino P 1 59¹
- C₁₀H₁₆N₂O₂** Camphor peroxide 939¹
 o Xylendiamine 1 o dimethoxy and HCl 1223²
- C₁₀H₁₆N₂O₃** See also *Soneryl*)
 Neonol 1 89
- C₁₀H₁₆N₂O₄** 3 Hydantoinacetic acid isoamyl ester 4 26¹
- C₁₀H₁₆N₂O₅** Carbamic acid λ λ succinyl; di Et ester 3984¹
- C₁₀H₁₆N₂O** Lactol 4 5-dihydro-3-glucosyl 84¹
- C₁₀H₁₆N₂O₂** Anserine 3 30¹
- C₁₀H₁₆N₂O₃** P₁ Adenylpyrophosphoric acid 3681¹
- C₁₀H₁₆N₂O₄** D-pentachloral hexamitate 1460
- C₁₀H₁₆O** (See also Camphor Citral Fenchone Hexenone Pulgone)
 Carvone 939¹
 Carveol P 4011
 Carvone dihydro 939²
 Compd hu 2 5 80-2° from brown coal tar 3461¹
 Crystal 4532¹
 Δ^1 Cyclohexenolaldehyde trimethyl P 103¹
 Cyclopentanone 2 cyclopentyl 2421¹
 Episcaphor 5106
 Isopulegone 213¹
 Pinocamphone 363¹
 Piperitone 939¹ 1234¹ 1512¹ 213¹
 2 Propanone 1 [3 and 4] methyl Δ^1 cyclohexenyl 260¹
 — 1 [3 and 4] methylcyclohexylidene 250¹
 Thujona 2124¹
- C₁₀H₁₆O₂** (See also Ascaridole Campherol)
 Acid hu 133-3° from leaf of *Chamaecypariss* 2424¹
 Acid hu 140-5° from p peritone 939²
 Campholenic acid 4251
 Camphor hydroxy 2900¹ 4570¹
 Cicole keto 933
 1 4 Cyclohexadiene 1 4 diethoxy 922
 Δ^1 Cyclohexenone 3 hydroxy 5 iso propyl 2 methyl 1319
 Δ^1 Cyclopenteneacetic acid α methyl Et ester 280¹
 Diisopropyl 213¹
 Episcaphor 3 hydroxy 4h¹ 46¹
 Lactone b 246-5° from autoxidation of piperitone 939¹
 α -Camphor acid Me ester 1¹
 7 N-camphordecaboxylic acid 1¹ di methyl 1823¹ 3640¹
 γ Terpinene dioxide 3981¹
- C₁₀H₁₆O₃** Cyclohexanecarboxylic acid, 3 keto-1 methyl 2985¹
 2 Indanecarboxylic acid hexahydro 2 hydroxy 3333¹
 Orthoacetic acid phenyl, tri Me ester 213¹
- C₁₀H₁₆O₄** Acetoacetic acid α (α ethoxy ethylidene), Et ester, 29 6¹
 Camphoric acid 2624¹ 3326¹
 Caryophyllenic acid, mono Me ester, 2955¹
 1 1 Cyclohexanediacetic acid, 4664¹
- 1 1 Cyclopentanediacetic acid, 3-methyl, and Ag salt, 3318¹, 4234¹
C₁₀H₁₆O₅ Camphorsulfonic acid, 1511¹, salts, 3322¹ λ salt, 3079¹
C₁₀H₁₆O₆ 2 Hexaone, o 6 - dihydroxy, di acetate 456¹
C₁₀H₁₆O₇ 1,3,4 Hexanetricarboxylic acid, 3 methyl, and Ag salt, 4330¹
 Isocamphoric acid, methyl, and Ba salt 3982¹, 3983¹
 Methanetricarboxylic acid, tri Et ester 3625¹
- C₁₀H₁₆O₈** 4-Saccharolactone, methyl trimethyl, 5430¹
C₁₀H₁₆O₉ Levulinic acid, peroxide, 4438¹
C₁₀H₁₆S Compd from *d*-limonene and S, 935¹
 Compd from pinene and S, 935¹
- C₁₀H₁₆BrN₂O** Asparagine, α bromoisocaproyl-, 3090¹
 Glycine V (λ bromoacetylleucyl), 2693¹
 Leucine V (λ bromoacetylglucyl), 2693¹
- C₁₀H₁₆Cl** (See also Camphene, chloro-)
 1,6 Octadiene 3 chloro 3,7-dimethyl, 4251¹
- C₁₀H₁₆ClMg** Bornylmagnesium chloride, 507¹
C₁₀H₁₆IN₂ Diethylphenylazanium iodide, 2952¹
C₁₀H₁₆N Anhydrolupanine, 960¹
 Cyclohexylamine λ Δ^1 - butenylidene-, 1809¹
- C₁₀H₁₆NO** Camphor oxime 3084¹
 Camphor amino 2900¹
 Pinocamphone oxime 4456¹
 1 Pyrrolethanol α -diethyl, 1626¹
 2(3) Pyrrolone 5-ethyl 1 methyl, 1450¹
- C₁₀H₁₆NO₂** Monomide, bca 130¹, of mono Me caryophyllenic 2958¹
- C₁₀H₁₆NO₃** α Camphorsulfonamide, 3322¹
 Trimethylphenylammonium methanesul fonal, 1797¹
- C₁₀H₁₆NO₄** Malonic acid allylammon, di Et ester, 1493¹
- C₁₀H₁₆NO₅** Malonic acid, carboxyammon, tri Et ester, 919¹
- C₁₀H₁₆NO₆** See Singuin
- C₁₀H₁₆N₂NaO** Acetamide α -cyano- λ heptyl, λ a deriv 3632¹
- C₁₀H₁₆N₂O** Camphedolone, semicarbazone, 3639¹
 Δ^1 Cyclohexenone, 4 isopropyl, semicarbazone 4532¹
 Ketone, methyl 4 methyl Δ^1 cyclohexenyl, semicarbazone, 4537¹
- C₁₀H₁₆** (See also *Desalin Menihene*)
 Bicyclopentyl, 2421¹
 Carvomenthene P 4281¹
 Cyclopentene 3 isopropyl 1 2-dimethyl, 3981¹
 3 Decane, 2112¹
 Tenuene, 3981¹
- C₁₀H₁₆ClN** Lupanine chloro-, 960¹ 3347¹
- C₁₀H₁₆ClNO₂** Leucine, N-chloroacetyl, ethyl ester, 2742¹
- C₁₀H₁₆HgN₂O₄** Acetamide, α cyano N heptyl α hydroxymercuric 3619¹
- C₁₀H₁₆INO** Quinolizine (9a) one, hexahydro-, methiodide, 300¹
- C₁₀H₁₆N₂** Indarine 3,3a 4 6,6,7 - hexahydro- 3,3,6 trimethyl, 693¹
- C₁₀H₁₆N₂O** Acetamide, α cyano - N - heptyl, 2619¹
- C₁₀H₁₆N₂O₂** Proline, 1 norvalyl, 177¹
 Proline, 1 valyl, 177¹

- 2 - Pyrrolidinesuccinamide, 1 (α hydroxy isovaleryl)-, 77²
 —, 1 (α hydroxyvaleryl)-, 77²
 C₁₀H₁₇N₃O Quinolizine-1(9a)-one, hexahydro, semicarbazone, 3007²
 C₁₀H₁₇N₃O₂ Alanine N [N - (N alanyl glycerylglycyl)], 2741²
 Alanine, N [N (N glycerylalanyl)glycyl], 2741²
 Glycine, N [N (N alanylglycylalanyl)], 2741²
 C₁₀H₁₈O (See also Borneol Cineol Citronellol Fenchyl alcohol Geraniol Isoborneol Menthone Terpineol)
 Cyclohexanone, 2 butyl-, 1809²
 Cyclopentanone, 2-cyclopentyl-, 2421²
 Ether butyl Δ^4 -cyclohexenyl-, 922²
 Limonol, 4251²
 Δ^4 -Nonanone, 6-methyl-, 3312²
 1-Pentanone 1-cyclopentyl-, 1808²
 Piperitol, 1234²
 C₁₀H₁₈O₂ Camphoric acid, 1427²
 Cyclopentanecarboxylic acid, 3 methyl-, Et ester, 4234²
 Cyclopropanecarboxylic acid 2 heptyl-, 819²
 Δ^1 -4 β -Menthenediol, 3981²
 β Pentenoic acid, β ethyl α methyl Ester, 4521²
 Sorberol, 4456²
 C₁₀H₁₈O₂ Acetoacetic acid, α α -diethyl Et ester, 821²
 Acid m 113-4² from piperitone, and salts, 939²
 Capric acid γ keto-, 1485²
 Capric acid α acetyl-, Et ester, 486²
 Cyclobutanecarboxylic acid 3 amoxy-, 2979²
 Levulinic acid, Am ester, 639² isomyl ester, 496², 535²
 1,4 β Menthenediol, 2,3 epoxy (?), 8951²
 Pinolglycol, 4456²
 C₁₀H₁₈O₂ Malonic acid, diisopropyl-, mono-Me ester, 1219²
 Oxalic acid, di Bu ester, 5892² diisobutyl ester, 5892²
 Sebacic acid, P 177², 489², 3344², 3809²
 Suberic acid, di Me ester, 1236²
 —, ω , ω -dimethyl-, 919²
 α -Terpinolol, ozonide, 2137²
 C₁₀H₁₈O₃ Acetic acid, α α (ethylsuccinyl) but-, di Et ester, 4393²
 Δ^1 1,3 Octadimedisulfonic acid 3,6 dimethyl-, salts, 2909²
 C₁₀H₁₈O₃ Butyric acid β hydrosy-, Et ester, β hydrosybutyrate, 495²
 Glutaric acid, α hydrosy α methyl di Et ester, 83²
 Malonic acid (β methoxyethyl), di Et ester, 3908²
 1 Propanol, 2,2 naphthyl diacetate, 2416²
 Xylose, dimethylacetate-, 5321²
 C₁₀H₁₈O₃ Galactonolactone, tetramethyl-, 277², 1222²
 Gluconolactone, tetramethyl-, 277², 1222²
 Mannonolactone, tetramethyl-, 27², 1222², 5515²
 C₁₀H₁₉O₃ Glucuronide, 2,3,4 trimethylmethyl-, 2118²
 C₁₀H₁₈O₃ Cyclohexanecarboxylic acid, dithionyl ester, 500²
 C₁₀H₁₈Br Methane bromine, P 975², P 4894²
 C₁₀H₁₈BrN₂O₂ Lysine N⁴ (α bromopropionyl) N⁴ methyl-, 2974²
 C₁₀H₁₈ClO₄ Nonanone, 6 chloro 6 methyl-, 3312²
 C₁₀H₁₈ClO₂ Glucose 1 chlorohydrin, tetramethyl-, 821²
 C₁₀H₁₈N₃ Carvomenthenecarboxylic acid, and HCl, 1234²
 Cyclohexylamine, N butyldene-, 1809²
 Lupanine, 960² salts, 3006²
 C₁₀H₁₈NO Allolopamine, 3005²
 Citronellal oxime, 2688²
 Cyclohexanone, 2 butyl oxime, 1808²
 Lupanine P 775², 960², 3005², 4004², 4005²
 Menthone, oxime, 5207²
 Tertiary amine from *Anabasis aphylla* and HCl, 3347²
 C₁₀H₁₈NO₂ Caproic acid ω (aminoethylidene) Ester, 5394²
 Cyclobutanecarboxamide, 3-amoxy-, 2979²
 Dimethylamine α α bis(tetrahydro 2 furyl)-, 5163²
 C₁₀H₁₈NO₂ Malonic acid α , α -diisopropyl Me ester, 1219²
 C₁₀H₁₈NO₂ Propionic acid, β β iminoethyl Ester, HCl, 4268²
 C₁₀H₁₈NO₂ Glycine Et ester, glucoside, 4231²
 C₁₀H₁₈NO₂ Cyclohexanone, 4 isopropyl-, semicarbazone, 4533²
 Cyclooctanone 2 methyl-, semicarbazone, 3972²
 Ketone methyl 4 methylcyclohexyl-, semicarbazone, 4537²
 C₁₀H₁₈N₂O₂ Levulinic acid, Bu ester, semicarbazone, 496² isobutyl ester, semicarbazone, 496²
 Pelargonic acid, γ -keto-, semicarbazone, 3972²
 C₁₀H₁₈N₂O₂ Glycine, N (N leucylglycyl), 117²
 C₁₀H₁₈N₂O₂ + H₂O Carbohydrazide ω isopropylidene- β (1 piperidylcarboxyl), 4269²
 C₁₀H₁₈ Cyclooctane 1 isopropyl 2,3 di methyl-, 3981²
 β Menthane, 1717²
 C₁₀H₁₈Br₂ Decane dibromo-, 483², 684², 5601²
 C₁₀H₁₈Cl₂ Decane, 1,10-dichloro-, 5665²
 C₁₀H₁₈Cl₂O₂ Nonanol, 6 (dichloromethyl)-, 2112²
 C₁₀H₁₈FeN₂O₂, 3589²
 C₁₀H₁₈IN Methanide, m 333 5², of base b₁, 43-5², 3007²
 Quinolizane, octahydro-, methiodide, 2007²
 C₁₀H₁₈I₂O₂ Diphenylacetylalcohol, dihydroxy-, 1467²
 C₁₀H₁₈N₂ Bupiperidine, 960²
 Lupanine, 11 amino-, 2007²
 3-Pentanone, azide, 2415²
 C₁₀H₁₈N₂O₂ Adipamide, N, N, N', N' - tetramethyl-, 1218²
 C₁₀H₁₈N₂O₂ 3 Heptanol, 6-methyl-, allophanate, 3312²
 2 Hexanol, 3,4 dimethyl-, allophanate, 3312²
 C₁₀H₁₈N₂S₂ Piperidine, 1,1'-dithiobis-, P 1538²
 C₁₀H₁₈N₂S₂ Piperidine, 1,1'-trithiobis-, 4853²
 C₁₀H₁₈N₂S₂ Piperidine, 1,1'-tetrahydrobis-, 4853²
 C₁₀H₁₈N₂O₂ 1,2-Cyclopentanedicarboxylic acid, 2 ethyl 3-keto-1 methyl-, dihydrazide hydrazone, 4539²
 C₁₀H₁₈O (See also Citronellol *M*)

- C₆H₆O₆ h₂yl 1808° 4234°
4 et butyl 434°
— 4 et butyl P 303
4 Decanone 961
1 p Menthanol P 303°
Nonanone methyl 961°
1 ran amyltetrahydro 684°
Rhodanol 1034°
- C₆H₆O₇ (See also Terpanol)
Acetic acid octylester 9701
Capric acid 1480° 2014 297° 5663°
Caproaldehyde α butyl α hydroxy
2113°
Caprylic acid Diester 5473
Cyclohexanone di Et acetal 9.2
Enanthic acid β methyl 1 ester 362°
Glycol h₂yl-2 from papestone 939
9 Octanol acetate 8°
Pelargonic acid β methyl 362°
- C₆H₆O₈ Capric acid α mercapto 96.4°
C₆H₆O₉ (1) codecane trimethylmethyl 498°
Styrolol 1014 Mc elbs 3449
C₆H₆O₁₀ Fructulose 134 α tetra
meth 3815
Fructose trimethylmethyl 29 8°
Glucose 3 6 trimethyl β methyl
8°
Tetramethoxyketone m 90-6° 1223°
- C₆H₆O₁₁ (lucine acid 2 3 6 tetramethyl
Butyl 3661°
C₆H₆O₁₂ Di Etone m 170 from isoprene
sulfone 77°
- C₆H₆Br Naphthalene isomethyl 362° 3628°
C₆H₆ClO 1 Dec mol 10 chloro 539°
C₆H₆ClO₂ Methane β amoxy β chloro
in propylmethoxy 29 9°
C₆H₆N₂ Butenylamine 1/2 1/2 methyl
and 101 4 3°
Compd from Et₃N₃ and CH₃CICO\N₂Et
711°
Cyclohexylamine 1 butyl and 1K1
1509
Methylamine 692° 1233°
Piperidine 2 amyl 362°
C₆H₆NO 1 Iperidipentanol 1813°
C₆H₆NO₂ Caproic acid β ethylamine- F ester
and 1K1 11°
Caprylic acid β ethylamine 711°
Leucine isobutyl ester 1K1 2742°
C₆H₆NO₃ Galactonamide tetramethyl 4224°
Glucosamide tetramethyl 4224°
C₆H₆N₂O Semicarbazone m 114-5° from
oxidation product of C₆H₆OH 3463°
C₆H₆N₂O₂ Lyxine 1/2 1/2 methyl
2974°
C₆H₆O₂P Methylphosphate 363°
C₆H₆ (See also Decane)
Octane dimethyl 3.02° 4516° 513°
5322°
C₆H₆HgS₂ 1st Amyl mercaptan 11g dens
3.18°
C₆H₆N₂ Pentane 3 3 azolene 2416°
C₆H₆N₂O Acetamide α diethylamine Δ 1
dimethyl, and chloroacetate 2116°
C₆H₆N₂O₂ 1 4 Pectanuracetic acid α α
dimethyl 517°
C₆H₆N₂Chetamide 4 HCl 5663°
C₆H₆N₂S₂ Saccharose 7 7 octamethylene-
thio α HCl 5663°
C₆H₆N₂O₂ Δ 3 Iperidone, 5 methyl
semicarbazone, semicarbazide compd
3312°
C₆H₆O Amyl ether, 5322°
- Decyl alcohol, 4223°
Isoamylether, 4203°, 4219°
Nonanol methyl, 3627°, 3628°, 4815°
C₆H₆O₂ 1, 10 Decanediol 1798°
C₆H₆O₂S₂ 1 Butanesulfonic acid, 3-methyl
thiol, isomylester, 1812°
C₆H₆O₂S₂ Butyraldehyde, α ethyl α hydroxy,
di Et acetal, 2112°
C₆H₆O₂S₂ Isoamylsulfite, 1797°
C₆H₆O₂D₂ D-penterythritol, 1486°
C₆H₆NO 3 Hexanol, 6 dimethylamine 3
ethyl and HCl, 4525°
3 Pentanol, 3 (diethylaminomethyl),
4525°
C₆H₆N₂O₂Zn + H₂O, 2600°
C₆H₆As₂Cl₂Hg Methyltripropylarsonium chlo-
ride, HgCl₂ deriv., 1483°
C₆H₆As₂I₂ Methyltripropylarsonium iodide,
1483°
C₆H₆CdH₂N₂As₂, 1754°
C₆H₆ClN Dioxamylammonium chloride, 2626°
C₆H₆HgN₂NiAs₂, 1754°
C₆H₆HgN₂Se₂Zn 1754°
C₆H₆N₂ 1, 6 Hexanediamine 1, 1, 1, 1, 1, 1-
tetramethyl and poly, 1218°
Hydrazine, 2 bis(α-ethylpropyl), and
hydrazides 2415°, 2416°
C₆H₆N₂NiS₂ + H₂O 1177°
C₆H₆Si Sebacic triethylatobutyl, 4530°
C₆H₆Sn Sebacic, diethylpropyl, 4603°
C₆H₆Cl₂CrN₂ 3087°
C₆H₆As₂N₂O₂W₂ + 4H₂O, 4601°
C₆H₆N₂O₂S₂W₂ + 12H₂O 4609°
C₆K₂La₂O₂ + 3H₂O Lanthanum potassium
oxalate 96.51°
C₆La₂N₂O₂ + 2H₂O Lanthanum sodium ox-
alate 2605°
- C₆H₆Br₂O 2 Naphthol acid 4,7,8 tribromo
3 hydroxy 945°
C₆H₆Br₂NO₂ Naphthalene tetrabromo 1
methyl-4 nitro 1513°
C₆H₆ClO₂ 1, 2 Thionaphthalenedicarboxylic
anhydride, chloromethyl, 5165°
C₆H₆ClNO₂ 2 Isodolicoacetic acids 4,5,6,7
tetrachloro 1 3 diketo 2 Me ester
337°
C₆H₆ClO₂ 2 Naphthol chloride, 3 iodide
2140°
C₆H₆BrO₂ 2 Naphthol acid, bromo 3
hydroxy P 3361°
C₆H₆BrO₂ 2 Thionaphthalenedicarboxylic acid,
1 isomethyl 5167°
C₆H₆Br₂ClO₂ 1 3 Iperidoxan 5 carboxylic
acid 4 bromo 4 (isomethylchloromethyl)
2 (dichloromethyl) 5478°
C₆H₆BrO₂ 2 Naphthalenedicarboxylic acid 3 4 5 - in
1 bromo 946°
2(1) Naphthalene 1 4 5 tribromo 1
methyl 946°
C₆H₆ClO₂ 2 Naphthol chloride, 3 hydroxy
2140°
C₆H₆ClO₂ 3 1 2 Thionaphthalenedicarboxylic
acid chloromethyl, 5165°
C₆H₆Cl₂O₂ Maleic acid methyl 1 2, 4, 6
tribromoazano, 5406°
C₆H₆ClO₂ 1 1 Benzodioxan 6 carboxylic
acid 4 (6 chloromethyl) 2 (dichloro-
methyl) 5428°
C₆H₆ClO₂ 1 3 Benzodioxan 6 carbonyl
chloride 2 4 bis(dichloromethyl),
1790°
C₆H₆O₂ 2 Naphthol acid 3 iodide 2140°
C₆H₆N₂ Naphthamide, 100°, P 517°

- C₆H₅NO Isocyanic acid, 1 naphthyl ester, 4795¹
Naphthosyl, P 1266²
- C₆H₅NO₂ Thiocyanic acid, 4 hydroxy 1-naphthyl ester, P 1239²
- C₁₀H₇NO, β -Naphthosazol-2(1) eme, 2423², 2424¹
Nordiclamus, 29²
- C₁₀H₇NO₂ 2 Naphthoic acid, 3 hydroxy 4 nitroso, 4877²
- C₁₀H₇NO₂ 4 *peri*-Naphthalenesulfonic acid 1,2-dihydro-2 keto-, P 1066²
- C₁₀H₇N₃O₃ 3 Pyrazolomethine, 1 (2,4 dimethoxyphenyl) 3 methyl, 1247¹
- C₁₀H₇BrNO₂ Ketone, bromomethyl 4 phenyl 2 thiazyl, 2722²
- C₁₀H₇BrNO₂ Naphthalene, bromo 1 methyl 4 nitro-, 1515¹
- C₁₀H₇BrO₂ 2 Naphthaleneacetic acid, 3,6 dibromo-, 946²
- C₁₀H₇ClNO₂ Ketone, chloromethyl 8 hydrazyl 5-quinolyl, and *derivs*, 106²
- C₁₀H₇ClNO₂ 3 Thiazole, 4 (chloromethyl) 2 (3,4 methylenedioxyphenyl), 952²
- C₁₀H₇ClNO₂ Ketone, 2 methyl 3-sodily trichloromethyl, 2720²
- C₁₀H₇ClO₂ 1,3 Benzodioxane 3 carboxylic acid, 2,4 bis(dichloromethyl) 5425²
- C₁₀H₇INO₂ 2 Naphthamide, 3-iodo-, 2140¹
- C₁₀H₇INO₂ Naphthalene, (iodomethyl) 923¹
- O H₂N₂ 2 9 Pyridindole, 300²
- C₁₀H₇N₃O₂ Isocyanic acid, 6 methoxy 4 quinolyl ester, 903²
- Propionitrile, β phthalimido- 2722²
- C₁₀H₇N₃O₂ Barbituric acid, 5-benzyl 4183¹
- Butyronitrile, α β diketone, α oxime, Bz deriv, 3021²
- Ketone, 8 hydroxy 7 nitroso-5 quinolyl methyl 2721²
- C₁₀H₇N₃O₂ 5 Naphthaleneacetic acid, 1 amino-, P 968²
- 4 Thiazoleacetamide, 2 phenyl, 952²
- Thiocyanic acid, 4-amino-1 naphthyl ester, P 556²
- C₁₀H₇O₂ 1 Naphthaldehyde, 504²
- C₁₀H₇O₂ Ketone, phenyl (benzyl), 2719²
- C₁₀H₇O₂ (See also Naphthoic acid)
- Naphthaldehyde, hydroxy, P 1536², 2145², P 2012²
- C₁₀H₇O₂ 2 Naphthoic acid hydroxy, 3,2² 503², P 3361², 3604², 4864²
- C₁₀H₇O₂ 2 Thionaphthaleneacetic acid, 1 acetyl, 5167²
- C₁₀H₇O₂ 1 Indanone, acid 2 3-diketo-, 5161²
- C₁₀H₇O₂ Compd, m 171², from acid m 202², 1499²
- C₁₀H₇BrO₂ Ethac, 3 bromo-2 naphthylmethyl 945²
- 2 Naphthaleneacetic acid, 3 bromo-, 946²
- C₁₀H₇BrNO Ketone, dibromomethyl 2 methyl 3 sodily, 2720²
- C₁₀H₇BrNO₂ 3 Iodolecarboxylic acid, 5,8 di bromo-, Et ester, 700²
- C₁₀H₇Cl Naphthalene 1 (chloromethyl), P 711², P 716², P 2005²
- C₁₀H₇ClN₃O₂ Quinolone, 2-chlorodimethylamino-, 2068¹
- C₁₀H₇ClN₃O₂ Glyoxime, chloro-, Ac Bz deriv, 79²
- C₁₀H₇ClO Ether, 3 chloro 2 naphthyl methyl, 2139²
- C₁₀H₇ClO₂ Naphthalenesulfonyl chloride, methyl, 1241¹, 1515¹, 4877¹
- C₁₀H₇ClO₂ 2 Naphthalenesulfonyl chloride 3 methoxy, 2139²
- C₁₀H₇ClO₂ 3 Glyoxime, acid, [(carboxymethyl) mercapto]chlorololyl, 5165¹
- C₁₀H₇ClNO₂ Ketone, dichloromethyl 2 methyl 3 sodily, 2720²
- C₁₀H₇ClNO₂ 1,3 Benzodioxane 6 carbonyl amide, 2,4 bis(dichloromethyl) 5428²
- β Quacetamide, 2,3,5,6 tetrachloro-, 5153²
- C₁₀H₇H₂NO₂ Quinolone acetoxymecene 5427²
- C₁₀H₇INO₂ 8 Quinolone 5 acetamide 7 indol, and HCl, 954¹
- C₁₀H₇INO Ketone duodimethyl 2 methyl 3 indily, 2720²
- C₁₀H₇N Pyridine phenyl 2720²
- C₁₀H₇NO 2 3 Cyclopentanol 1(2) one 3 8-dihydro-, 4850²
- Ketone phenyl pyrrol 145², 2484², 3397²
- Pyridine 4 phenoxy 296²
- C₁₀H₇NO₂ Ketone, methyl 4 phenyl 2 thiazyl 2722²
- C₁₀H₇NO₂ Ketone 8 hydroxy 5 quinolyl methyl 2727² and *derivs* 106²
- Naphthaldehyde hydroxy, oxime 2146² 3589²
- Naphthalene 1 methyl-4 nitro 151²
- 2 Naphthalene 3 amino P 4012² P 4005²
- 8 Quinolonecarboxylic acid, 4 methyl P 366²
- C₁₀H₇NO₂ 4 Thiazoleacetamide, 2 phenyl and HCl 952²
- C₁₀H₇NO₂ Quinolone acid 6 hydroxy, Me ester, 954²
- Dicetamide 297²
- 3 Iodoleglyoxylic acid 2 methyl, 2721²
- Ketone 7 8 dihydroxy 5 quinolylmethyl and HCl 2728²
- Quinone acid 953² 1530²
- 5 Quinolonecarboxylic acid 8 methoxy 2727²
- C₁₀H₇NO₂ Alanine N phthalyl, 2116²
- Dicetamide acid, 29²
- 1 Iodacetic acid 2 3-diketo 2 oxime 5162²
- Iodacetic acid, 1 acetyl, 2144²
- 2 Iododimethylcarboxylic acid, 1,3-diketo-, Et ester, 3993²
- 3 Quinolonecarboxylic acid 4 hydroxy 2-methoxy, 297²
- C₁₀H₇NO₂ 1 Naphthoic acid, α -oxosulfo-, P 1069² P 1263²
- C₁₀H₇NO₂ Formohydroxamamide, N acetyl- α -cyanoo-, Bz deriv, 81²
- Furan 3-acetyl 4 benzamido-, 3622²
- C₁₀H₇NO₂ Phenol 2,4 dimethoxy compd with pyridine, 2725²
- C₁₀H₇NO₂ Benzoyl deriv, m 218² (decompn), α compd m 180-90² (decompn), 1243²
- C₁₀H₇NO₂ Pyrazolobenzoxazine, 4 isomyl 4,5-dihydro 5-hydroxy-2 methyl-7 nitro-6-oxo-, 1246²
- C₁₀H₇NO₂ 2,3-Iododimethylcarboxylic acid, 5 7 dimethoxy, 2 hydroxy 3 Me ester, 3349²
- C₁₀H₇NO₂ 2 Iodolecarboxylic acid, 3,5,7 trinitro-, Et ester, 3349²
- C₁₀H₇ (See also Naphthalene, methyl)
- 1 Penta-4 one 5 phenyl, 2421²
- C₁₀H₇BrClN₃O Acetic acid, α (2 bromo- β tolyl) - β (β - trichloroethylidene) hydrate, 4264²
- C₁₀H₇BrNO Quinaldine, 4-bromo-6-methoxy, 1528²

- C₁₁H₁₆BrNO₂ Cinnamaldehyde bromo- oxime
Ac deriv 1819¹
3-Iodoacetic acid 6-bromo-, Et ester,
700¹
- C₁₁H₁₆BrO₂ Acetic acid, benzoyldibromo-
Et ester 71¹
- C₁₁H₁₆ClNO₂ Thiazole 2 *p* amyl 4 (chloro-
methyl) 5u2¹
- C₁₁H₁₆ClNO₂ 1 (2 5 Dihydroxyphenyl)
pyridinium chloride 3995¹
- C₁₁H₁₆ClO₂ Glutaryl chloride *o* phenyl, 5161¹
- C₁₁H₁₆HgO₂ *o* Resorcyaldehyde 3 5 bis
(acetoxymercury) 287¹
- C₁₁H₁₆N₂ Pyridine amine- 110¹ 3999¹
- C₁₁H₁₆N₂O 2 Furaldehyde phenylhydrazone
5163¹
3 Iodoacetamide 6 methoxy 700¹
2 Naphthamide 3 amino P 2153¹
2 9 Pyridinol 1 7) oot 3 4 dihydro-
4880¹
- C₁₁H₁₆N₂O₂ 2 4 1 Benzothiazine 1 one 3
(allylamino) 300¹
2 4 (1 3) Quinoxalineone, 3 allyl 2
lino 300¹
- C₁₁H₁₆N₂O₂ Base m 258¹ from fusion of keto
yobutene with KOH 3003¹
Ketone " amino 8 hydroxy 3 quinoily
methyl and HCl 2728¹
— 8-hydroxy *o*-quinoily methyl oxime
106¹
1 Naphthylamine 4 methyl 2 nitro-
715¹
Quinolone 5 acetamide and acid sulfate
934¹
Uracil methylphenyl 5167¹
- C₁₁H₁₆N₂O₂ Propionamide *o* phthalimidethio
3722¹
- C₁₁H₁₆N₂O₂ Carbostyryl dimethylurea 2967¹
Ketone 7 8 dihydroxy 5 quinoily
methyl oxime 3728¹
Rulonal 4358¹
- C₁₁H₁₆N₂O₂ 3 Ilydantoinacetic acid Ph ester
4225¹
1 Iodanacet acid 2 3-diketo dioxime
5162¹
2 Iodoacetic acid 6-nitro Et ester
700¹
31 Oxazole 4 5 epoxy 4 6 dimethyl 2
[and *o*] nitrophenyl 294¹
Quinolone 5 6-dimethoxy 8-nitro P 5438¹
- C₁₁H₁₆N₂O₂ 2 4 Quinoxalinediol dimethoxy
nitroso- 2954¹
- C₁₁H₁₆N₂O₂ Furazan 3-acetyl-4-amino- oxime
Bx deriv 3622¹
- C₁₁H₁₆N₂O₂ Pyrazole 1 (2 4 dimitrophenyl)
3 5 dimethyl, 33.0¹
- C₁₁H₁₆N₂O₂ Pyrazole 1 (2 4 dimitrophenyl)
5-methoxy 3 methyl 1246¹
- C₁₁H₁₆N₂O₂ 2 Iodoacetic acid 5 " di
nitro- Et ester 3449¹
- C₁₁H₁₆N₂S 2 5 Tranzamercapten 4 amino-6-
ethyl, 3736¹
Urea, *o*, *o*-di 3 pyridylthio- and HCl 3345¹
- C₁₁H₁₆N₂O₂ Liber, methyl 2 naphthyl, 1797¹
2140¹
Naphthol methyl 1241¹ 1515¹ 4877¹
C₁₁H₁₆O₂ 1 Naphthyl mercaptan 2 methoxy,
3330¹
- C₁₁H₁₆O₂ Coumarin 3 4 (and 4 7) dimethyl
4542¹
1 Naphthol 5-methoxy, 404¹
" *o*-Pentadecanoic acid *o*-phenyl, 1161¹
Propionic acid phenyl, Et ester, 71¹
- C₁₁H₁₆O₂S 2 Thionaphthene-carboxylic acid, 1
ethyl 5167¹
- C₁₁H₁₆O₂ Δ^2 Butenone, 4 (3 4 methyle-
oxyphenyl), 4277¹
- Cinnamaldehyde, *o* methyl 3, 4-methylene-
dioxo, 1230¹, 4247¹
- 1 Iodanacetic acid 3 keto-, 1830¹, 5161¹
1 3 Iodanone, 4-hydroxy 2, 7-dimethyl,
2718¹
1 2 4 Pentamitron 1 phenyl, 5411¹
Umbelliferone, 3, 4-dimethyl, 4251¹, 4869¹,
5420¹
- C₁₁H₁₆O₂S 2 Naphthalenesulfonic acid, 3-
methoxy, and K salt, 2128¹
- Naphthalenesulfonic acid, methyl, 4877¹,
and salts, 1241¹ and Na salt, 1515¹
- C₁₁H₁₆O₂ (See also isomers)
Acid m 202 3¹, from dihydrocannabinoi,
518¹
- Chromone dihydroxy 2 3-dimethyl, 4200¹,
467¹
- Coumarin dihydroxy-3, 4 dimethyl, 4250¹,
5671¹
— 6 " dimethoxy, 2710¹
- 1 3 Iodanone, 4-hydroxy 6-methoxy 2
methyl 3140¹
- 4 Isobenzofuran-carboxylic acid, 1, 2 dihydro-
1 keto-, Et ester, 3320¹
- Paraconic acid 2 phenyl, 1813¹
- C₁₁H₁₆O₂ Hydrocinnamic acid, *o*-(carboxy-
benzyl), 5162¹
- Phthalide 4 hydroxy-3 methoxy, acetate,
2150¹
- o* Resorcyaldehyde diacetate, 933¹
- C₁₁H₁₆BrN₂O₂ Hydrouracil 5-bromo 1 methyl-6
phenyl, 517¹
- C₁₁H₁₆BrN₂S Thiazole 5-bromo-4 methyl 2 *p*-
toluene- 4881¹
- Thiazole, 2 (2 bromo-*p* toluene) 4 methyl,
4881¹
- C₁₁H₁₆BrN₂O₂ Glyoxylic acid, bromo-, Et ester,
2, 6-dibromo-*p* tolylhydrazone, 4244¹
- C₁₁H₁₆BrO₂ Benzyl alcohol, *o*-(tribromo-
methyl), propionate 503¹
- C₁₁H₁₆BrO₂ Ether, isomyl pentabromophenyl,
1813¹
- C₁₁H₁₆ClN₂O₂ Anthranic acid 4 (4-chloro-
acetylphenyl), 4255¹
- C₁₁H₁₆ClN₂O₂ Tyrosine, *N*-chloroacetyl 2 nitro-,
2694¹
- C₁₁H₁₆ClN₂S 3 *o* Dimethyl 1 phenyl 4 pyrazole-
aromum chloride, 1523¹
- C₁₁H₁₆ClO₂ Acetophenone, *o*-trichloro-2, 4 6-tri-
methyl, 935¹
- C₁₁H₁₆ClO₂ Aristophenone, *o*-trichloro-2 (and 4)
methoxy-4, 6 (and 2 6)-dimethyl, 923¹
- C₁₁H₁₆ClO₂ 2 Propanol, 1, 3-dichloro-, 5-chloro-
2, 4-cresolate, 3636¹
- C₁₁H₁₆CuO₂ 1, 3 Butenediol, 1 *p* tolyl, Cu
deriv, 4881¹
- C₁₁H₁₆HgNO₂ Indole, 3 (acetoxymercury) 2-
methyl 701¹
N-ketone, 2 (acetoxymercury), 701¹
- C₁₁H₁₆N₂ 1 Naphthaminals, 5, 6, 7, 8-tetrahydro-,
836¹
2 Naphthylaminals, 8-methyl, 1241¹
Pyrazole 2 methyl-4 phenyl, 3999¹
- Quinone 3, 4-dimethyl, P 3668¹ and
HCl 704¹ 705¹
— ethyl, P 3668¹ and salts, 1829¹
- C₁₁H₁₆NO Acetals, 2, 4 vinyl 503¹
- Cinnamamide, *o*-ethoxy, 1819¹
- Isomazole, 3 methyl 5-*p*-tolyl, 4861¹

- Lepidine, methoxy, P 3668^a
 2 Naphthylamide, methoxy, P 302^a 2138^a
 Quinolone, 8-methoxy 5-methyl, and chloro-
 plamate, 954^a
 C₁₁H₁₁NO₃ Thiazole, 5-ethoxy 2 phenyl 1247^a
 2-Thiazolecarbamol, α methyl 4 phenyl
 2722^a
 Thiocyanic acid, 2,4 dimethylphenacyl ester
 505^a
 C₁₁H₁₁NO₃ Rhodamine, 3 phenethyl, 4241^a
 C₁₁H₁₁NO₃ Glutarimide, N phenyl 2418^a
 Homoamisonitrile α acetyl 691^a
 3 Indolecarboxylic acid, Et ester 700^a
 Oxazole 5 ethoxy 2 phenyl 1247^a
 δ^1 Oxazoline, 4,5 epoxy 4 & dimethyl
 2 phenyl, and HCl 294^a
 Quinolone 6,8-dimethoxy, P 1333^a
 4-Quinolone 6-methoxy 2 methyl 1528^a
 4(1) Quinolone 1 acetyl 2,3-dihydro- 106^a
 C₁₁H₁₁NO₃ Naphthalenesulfonamides methyl
 1241^a, 1515^a, 467^a
 C₁₁H₁₁NO₃ Acetic acid [(1 5-dimethyl 4
 benzothiazolyl)mercaptol], 4550^a
 C₁₁H₁₁NO₃ Cinnamaldehyde, α methyl 3 4
 methylenedioxy oxime 1230^a
 3 Isodecetic acid α hydroxy 2 methyl
 and ester salt, 2720^a
 Isodecetic acid 2446^a
 Mandelomitrile β -methoxy, acetate 2981^a
 δ^1 Oxazoline 4 5-epoxy 4 5-dimethyl 2
 anisyl, 294^a
 C₁₁H₁₁NO₃ Acetic acid [(3 4 dihydro-3 keto-7
 methyl 5 1,4,2 benzothiazyl)mer-
 capto], 4550^a
 C₁₁H₁₁NO₃ Cinnamic acid nitro Et ester
 2143^a
 Δ^1 -Oxazoline 2 (3 4-dihydroxyphenyl)-4 5-
 epoxy 4 5-dimethyl 204^a
 2 4 Quinolinediol dimethoxy 298^a
 C₁₁H₁₁NO₃ Acetic acid (benzothiazolyl)
 2143^a
 Aspartic acid, N benzoyl 1231^a
 Oxalic acid α -carboxy di Me ester,
 2148^a
 Phenol m (β -nitrovinyl) ethylcarbonate
 4552^a
 Propionic acid, β (α - β tolyl) 519^a
 C₁₁H₁₁NO₃ 1,3-Naphthalenedisulfonic acid
 4 (ammonomethyl) P 324^a
 C₁₁H₁₁NO₃ Oxalic acid 2-carboxy 4 5 di
 methoxy, 2148^a
 C₁₁H₁₁N₂ Pyrimidine 2 amino-4 β tolyl 1254^a
 C₁₁H₁₁N₂O Guanine α -(7 hydroxynaphthyl),
 P 5011^a and HCl P 5298^a
 Pyrimidine, 2 amino-4 β anisyl 1254^a
 C₁₁H₁₁N₂O Glyoxylic acid, cyano- Et ester
 phenylhydrazones, 2695^a
 Quinone acid, hydrazide, 953^a
 C₁₁H₁₁N₂O₃ 1,2,4 6-Thiodiazin 5-ol 2 amino-
 Ac deriv, 3002^a
 C₁₁H₁₁N₂O₃ 3 Hydantoinacetamide, 4228^a
 C₁₁H₁₁N₂O₃ Glyoxime, amino-, Ac Et deriv,
 801 813^a
 C₁₁H₁₁N₂ Pyridine 2 6-diaminophenylazn
 HCl P 2443^a, P 4361^a P 5678^a
 C₁₁H₁₁N₂O₃ 2,3 Transaminocaptan 4-amino-6-
 ethyl, picrate 705^a
 C₁₁H₁₁N₂O₃ 6-Quinolonecarboxylic acid, 2 hydroxy
 4 7 (and 4 8)-dimethyl, and salts 296^a
 C₁₁H₁₁BrClN₃ Benzothiazole 3 bromo-5-chloro-
 1-isobutylamino- 4581^a
 C₁₁H₁₁BrN₃ Alanine, N bromoacetyl β phenyl
 2693^a
 2 Pyrrolecarboxylic acid, 4 (β -bromovinyl)-5-
 formyl 3 methyl Et ester, 1520^a
 C₁₁H₁₁BrNO₂ Anthranic acid, 4 bromo N
 (carboxymethyl), di Me ester, 1522^a
 C₁₁H₁₁Br₂N₃O₃ Glyoxylic acid Et ester, 2 6-di
 bromo- β tolylhydrazones 4244^a
 Glyoxylic acid bromo- Et ester, 2 bromo-
 β tolylhydrazones 4244^a
 C₁₁H₁₁BrO₃ Phenol p (α , β -dibromopropyl),
 acetate 4538^a
 C₁₁H₁₁Br₂ClN₃ Benzothiazole 3 bromo 5-chloro
 1 isobutylamino dibromide 4581^a
 C₁₁H₁₁ClN₃O₃ 4 Pyrazolol, 1 (β -chlorophenyl) 5
 methyl methanol de 3342^a
 C₁₁H₁₁ClNO Isoquinoline, 1 (chloromethyl) 3 4
 dihydro 6 methoxy HCl, 1531^a
 C₁₁H₁₁ClNO₂ Acetamide, α -chloro N (3 4
 methylenedioxyphenethyl), 1530^a
 Hydracinnamic acid, β (α -chloroacetamido)
 2694^a
 C₁₁H₁₁ClNO₂ 2 5 Pyrrolecarboxylic acid 3 (β -
 chlorovinyl) 4 methyl, Et ester 952^a
 Tyrosine N chloroacetyl 2694^a
 C₁₁H₁₁ClN₃ See Pyridine
 C₁₁H₁₁Cl₂O₃ 2-Propanol 1 3-dichloro, cresolate
 3638^a
 C₁₁H₁₁Cl₂NO Amsabine 2 6-dimethyl- ω (tri
 chloromethyl) HCl 935^a
 Benzalazine 2 methyl 4 6-dimethyl- ω (tri
 chloromethyl) HCl 935^a
 C₁₁H₁₁Cl₂NO₂ 2 Pyrrolecarboxylic acid 3 5-di
 methyl-4 trichloroacetyl Et ester 3003^a
 C₁₁H₁₁HgN₂O₃ Acetoxybide, α -cyano- α -(hydroxy
 mercur) 3610^a
 C₁₁H₁₁N₂ Pyrazole 3 methyl 5 β tolyl 4581^a
 2 9 Pyridindole, 1,2 3 4 tetrahydro 3011^a
 C₁₁H₁₁N₂O (See also Anisylamine)
 Carbonyl amine dimethyl and HCl
 3991^a
 4-Pyrazolol 5-methyl 1 tolyl 3342^a
 C₁₁H₁₁N₂O₃ Benzothiazole, 5 methyl 1 N
 methylacetamido- 1041^a
 Benzothiazolone, 1 (acetylmino) 2 5 di
 methyl, 1037^a
 4-Thiazolemethylamine, 2 β anisyl, and di
 HCl, 952^a
 C₁₁H₁₁N₂O₃ (See also Tryptophan)
 Hydroxanth, methyl-6-phenyl, 5157^a, 5171^a
 3-Isodecylcarboxylic acid, 5 amino, Et ester
 and its salts 7005^a
 1 Pyrrolethiazol, 2 pyrrolecarboxylate,
 1525^a
 Quinolone, 8 amino 5,6-dimethoxy, P 5434^a
 C₁₁H₁₁N₂O₃ Benzothiazole, 1 acetamido-5-
 ethoxy, 1041^a
 Benzothiazolone, 2 acetyl 5-ethoxy 1 amino-,
 and hydroxydibromide, 1041^a
 Pyrocatechol, 1 - [2 (β -aminoethyl) 4-
 thansyl, and sulfate, 2722^a
 C₁₁H₁₁N₂O₃ Benzoic acid, α -(2 ω -dithianylidene-
 hydrazinyl) 2597^a
 C₁₁H₁₁N₂O₃ Compd, m 68-98^a, from benzy
 amine and benzaldehyde 2 methylisemcar
 bazone, 2701^a
 Pyruvic acid, α -tolylhydrazones, 1821^a
 C₁₁H₁₁N₂O₃ (See also Kynurenic)
 Asparagine, N^W benzoyl, 278^a, 2615^a
 Glutamic acid, α 7-dicyano-, di Et ester,
 2113^a
 C₁₁H₁₁N₂O₃ Alanine, N-(ω -nitrobenzoyl), Me
 ester, 2117^a, 2115^a
 C₁₁H₁₁N₂O₃ 1,2,4 Triazol 3(2)-one, 5-methyl 2-
 β -tolylthiocarbonyl, 3651^a

- C₁₁H₁₁N₃O₅ ? Propanone 1 (1 5-methylenedioxy) nitrophenyl, semicarbazone, 334
- C₁₁H₁₁N₃O₅ ? 3) Thiazolone 4 p-tolyl thiosemicarbazone 1532²
- C₁₁H₁₁N₃O₅ (Isosamine monoperate, "9" 532²)
- C₁₁H₁₁O₃ 3 Benzosuberone 399²
Cinnamaldehyde p a-dimethyl 1230²
— α ethyl 413²
Ester 3 4-dihydro-2 naphthyl methyl 139
1 Iodanone 1 3-dimethyl 4240²
2 Naphthaldehyde 3 6 7 8-tetrahydro- P 3016
3 3-Phenone 1 phenyl 150²
- C₁₁H₁₁O₃ 1 3 Butanedione 1 p-tolyl 4881²
Butyric acid γ hydroxy-γ p-tolyl γ lactone 519
Cinnamaldehyde methyl α methyl, 1230² 424²
Cinnamic acid Et ester 52² 179² 1798² 141²
— methyl Me ester 2143²
β Ientenoic acid γ phenyl, 1603²
Rosenol 3123²
- C₁₁H₁₁O₃ Δ² 2 Butenone, 4 (4 hydroxy α amyl) 42²
Cinnamic acid hydroxy Et ester 2143²
— methyl Me ester 2143²
Compd, m 230² from acid formed by the oxidation of ergosterol 114²
Hemilutic acid 6 acetyl, 665²
Isomylallic acid 42²
Isosafrol α methoxy 42²
Myricin 427²
1 4 Ienanedione 2 hydroxy 1 phenyl 341²
Pyrocatechol 4 propenyl 2 acetate, 5400²
Toluic acid acetyl Me ester 680² 2714²
- C₁₁H₁₁O₃ Acetophenone α hydroxy p-methoxy acetate 510²
Glutaric acid β phenyl 5161²
- C₁₁H₁₁O₃ Acetic acid α α (benzaldehyde) 4193²
- C₁₁H₁₁O₃ 1 4 Thiopyran 3 5 dicarboxylic acid 4 keto 7 8-dimercapto- di F ester 902²
- C₁₁H₁₁O₃ Trimethyl ester m 123-4° of acid from eugenol 114²
- C₁₁H₁₁O₃ Rosic acid 1510² 3739²
- C₁₁H₁₁O₃ Salicylic acid 5-sulfo di Me ester acetate 3322²
- C₁₁H₁₁O₃ 2 "5 5-Spiroheptanetetracarboxylic acid and p-allyl 4858²
- C₁₁H₁₁AN₃O₅ 2 Benzenediazolecarboxylic acid 2 methyl-, thioacetamide deriv, "03"
- C₁₁H₁₁BrClNO₅ 2 Pyrrolecarboxylic acid 4 (β bromovinyl)-3,5-dimethyl Et ester chloro deriv 1400²
- C₁₁H₁₁BrN₃O₅ Glyoxylic acid Et ester 2 bromo- p-tolyl 4240²
- C₁₁H₁₁BrN₃ Benzothiazole 3 bromo-5-methyl 1 propylamino, 4881²
- C₁₁H₁₁BrO₅ Indao 1 bromo-2-ethoxy 1517²
- C₁₁H₁₁BrO₅ Homocinnamic acid, 3-bromo-α-ethyl, 691²
- C₁₁H₁₁Cl Naphthalene, (chloromethyl) 1,2 3 4 tetrahydro 943² P 363²
- C₁₁H₁₁ClNO₅ Butyraldehyde, β-chloro-α-keto, (o and p) tolylhydrazine, 3311²
4 Pyrazolol, 5-methyl-1 phenyl, methochlo- 1111 3312²
- C₁₁H₁₁ClN₃S Benzothiazole, 5-chloro-1-isobutyl amino, 4881²
- C₁₁H₁₁ClO₅ Glycerol, 1 (5-chloro-2,4-cresolate), 3636²
- C₁₁H₁₁Cl₃ m-Xylene, 4-(β,γ,γ trichloropropyl), 390²
- C₁₁H₁₁N₃O₅ 4 Pyrazolol, 5-methyl-1 phenyl, methochlo, 3342²
- C₁₁H₁₁KN₃O₅ Potassium salt of monophenyl hydrazine of compd from 2 methyl 2,3 butadiene sulfone, 277²
- C₁₁H₁₁N 2 Naphthylamine, 3,4-dihydro-N methyl and HCl, 2139²
Δ² Pyrrhoac, 2 benzyl, and chlorosulfate, 299²
— 1 methyl 2 phenyl and salts, 102²
n-Toluenic acid, 2 4,6-trimethyl, 5154²
- C₁₁H₁₁NO Cresotinic acid, isopropyl, 936²
Crotonamide γ methyl, 488²
Crotonophenone, β amino-β-methyl, 4881²
Hydrocarboxyl, 3,4-dimethyl, "03"
1 Propanol 3 (3 indyl), 514²
- C₁₁H₁₁NO₅ Thiocrotonic acid, 4 acetamide, 5423²
- C₁₁H₁₁NO₅ (See also Naphthol AS)
Butyric acid γ (amino-p-tolyl)-γ-hydroxy, γ lactone 519²
Cinnamaldehyde, p methoxy-α methyl, oxime 1230²
Hydroxydrastimol, 4003²
- C₁₁H₁₁O₅ Butyramide, α hydroxythio-, benzoate 2708²
- C₁₁H₁₁O₅ Glycolic acid, phenethylidibio- carbamate, 4241²
Sulfamide, \ p-tolylsulfonyl-S, S diviny, 2114²
- C₁₁H₁₁O₅ p-Acetoacetamide, 2126²
Alaun, \ p-tolyl, 2117²
Benzoic acid, β acetamide, Et ester, 1811²
Δ² 2 Butenone, 4 (3 hydroxy p amyl), oxime 2132²
Succinic anhydride, n (3,5-dimethyl 2 pyr- yl) β-methyl, 364²
- C₁₁H₁₁O₅ Thiocrotonic acid, 4 acetamide, 1 diester, 5423²
- C₁₁H₁₁O₅ Compd, m 111², from 2 methyl pyrrole and di Me acetylbenzocarbonylate, 3645²
Malonic acid, (α methylaminobenzyl), 516²
P-phenyl acid, 2 (dimethylaminomethyl), and chlorosulfate, 1202²
- C₁₁H₁₁NO₅ Lactic acid, β (acetoxy methylamino) β phenyl and di-K salt 1820²
"Aryene, 2,4,5-trimethoxy β-nitro, 5405²
- C₁₁H₁₁NO₅ 2 Pyrrolecarboxylic acid, 4 (β,β-dicarboxyethyl)-3,5-dimethyl 301²
- C₁₁H₁₁NO₅ Benzenesulfonic acid, (α-acetyl acetamide)methoxy, P 3361²
- C₁₁H₁₁N₃ Pyrazole, β amino-3,5-dimethyl 1 phenyl, and chloroplatinate, 1623²
- C₁₁H₁₁NO₅ Acetolone α-ethyl (?), p nitrophenyl hydrazine 2411²
1,3 Butanedione, 1 phenyl, semicarbazone, 3631²
5-Homochromaphone, semicarbazone, 1243²
p-Phenylaldehyde, p-nitrophenylhydrazine, 5140²
Cinnamaldehyde, p nitrophenylhydrazine, 2414²
- C₁₁H₁₁N₃O₅ Propiophenone, 3 4 methylenedioxy, semicarbazone, 3321²
Toluic acid acetyl, semicarbazone 680²
- C₁₁H₁₁O₅ Anthranilic acid, (N glycol glycol), 4258²

- C₁₁H₁₁N₃O₂ Tyrosine, V glycol 2-nitro-, 2694⁴
 C₁₁H₁₁N₃O₂ 1,4 3 Isobenzoxazine, 2 methylamino
 5-p tolyl, and -HCl, 1512²
 C₁₁H₁₁N₃O₂ Methylamine, picofonate, 70¹
 C₁₁H₁₁ 1,6-Heptadiene, 4-ethynyl 4 vinyl (?),
 3309²
 Naphthalene, 1,2 3,4 tetrahydro-6 methyl,
 943²
 1-entene phenyl, 4795²
 C₁₁H₁₁AsNO₂ Malonamide acid, β arseno, Et
 ester and its Na salt, 5407²
 C₁₁H₁₁AsN₂O₂ Δ -1 Pyrazoline β -benzenearsonic
 acid, 4 amoo α -keto 2 3-dimethyl, F
 2813²
 C₁₁H₁₁BrNO Isovaleramide, β -bromo-, 1811²
 C₁₁H₁₁BrNO 2 Pyrrololeucobutyric acid 4 (β
 bromoviny)-3,5-dimethyl, Et ester,
 1520²
 C₁₁H₁₁Br Benzene, [v bromo- α -(β bromoethyl)
 propyl], 1832²
 C₁₁H₁₁BrO₂ Benzene, 1 (α β -dibromopropyl)
 2 4-dimethoxy, 5507¹
 C₁₁H₁₁BrNO₂ 2 Pyrrololeucobutyric acid 3- β -
 methyl 4 (α , β β tubromopropyl) Et ester,
 1830²
 C₁₁H₁₁BrN 3 Benzothiazole, 3 bromo-5-methyl
 1 propylamino-, hydantoinamide 4841²
 C₁₁H₁₁ClNO₂ Acetamide, α chloro-*N* (m
 methoxyphenethyl), 1530²
 C₁₁H₁₁ClNO₂ 3 Sulfamine S (β -chloroethyl) *N*
 β tolylulfoyl-S vinyl, 2114¹
 C₁₁H₁₁ClNO₂ Acetamide, α -chloro-*N* veratryl
 1225²
 Cryptopyrrololeucobutyric acid chloroacetyl
 3009²
 C₁₁H₁₁N₂ Indole, 3 (β aminoethyl) 1 methyl
 3011²
 Indole, 3 (γ aminopropyl) and HCl 516¹
 — 3 (β methylaminoethyl) 3002²
 C₁₁H₁₁N₂O (See also Cytisine)
 Indole 3 (β aminoethyl) methoxy, 3011²
 700² 2145²
 Pyridine 3 (1 acetyl-2 pyrroldyl) and
 chloroplatinate, 300¹
 C₁₁H₁₁N₂O₂ Acetone, oxime methylcarbamate
 1506²
 β -Butaone, oxime carbamate 1506²
 β -Crotinamide β amino- 2126²
 1 1 Cyclopentanediacetic acid α cyan 3
 methyl 4234²
 4 Pyrazolol 5-methyl 1 phenyl metho
 hydride 3342²
 C₁₁H₁₁N₂O₂ 3 Thiophenone 4 5-dihydro-4
 methyl 5 d oxide phenylhydrazine
 277²
 C₁₁H₁₁N₂O₂ Carbamide acid β acetamido Et
 ester, 5403²
 Glycine *N* (β pheoylatanyl) 2627²
 Hydrocinamic acid β glycyllamino- 2694²
 — β (methylcarbamido) 516²
 Isobutylic acid α -(β phenylcarbamido)
 4527²
 C₁₁H₁₁N₂O₂ Acetamide, α isopropoxy- 5409²
 3 5-Acetoxyde, 4 methoxy 2 nitro 2424²
 Butyric pyrazole deriv (?), m 76², 3631²
 Carbamic acid, 4 acetamido-2 hydroxy, Et
 ester, 1249²
 —, β nitro- Bu ester, 2686² sec-Bu ester
 2686² isobutyl ester 2686²
 Tyrosine, *N* glycol 2694¹
 C₁₁H₁₁N₂O₂ Methanol, 4-pyrroline-3-carboxylic
 acid, octahydro-8-keto-7 methyl 17 nitro-
 1831¹
- Urea, (2,4,5-trimethoxybenzoyl), 5154²
 C₁₁H₁₁N₂O₂ Glycine, *N*, *N'* (hydroxytolylene)
 1, α , 491²
 C₁₁H₁₁N₂O₂ Benzothiazole, 5-methyl 1 propyl
 amino-, 4841²
 C₁₁H₁₁N₂O₂ 2 m-Dithianone, 5-methyl, phenyl-
 hydrazine, 2697²
 C₁₁H₁₁N₂O₂ Carbamide acid, acetyl, Et ester,
 β nitrophenylhydrazine, 3651¹
 Theobromine, 1 (β hydroxyethyl), acetate
 1031¹
 C₁₁H₁₁N₂O₂ 2,5-Pyrroledicarboxylic acid, 3-
 formyl 4 methyl, di Me ester, semicar-
 bamide, 962¹
 C₁₁H₁₁N₂O₂ Piperidine, picrate, 3545²
 C₁₁H₁₁N₂O₂ Betaine, picrate, 70¹
 C₁₁H₁₁N₂O₂ Betaine, ethylate, 70¹
 C₁₁H₁₁N₂O₂ 1,2 Propandione, 1 (2 4-dihydroxy
 phenyl), dimercarbamate, 1510²
 C₁₁H₁₁O Benzyl alcohol, α alkyl β -methyl, 3078²
 1 Butanol, 2 butanol, 2708¹
 Ether, ethyl γ -phenylalkyl, 2132²
 —, methyl 1,2 3,4 tetrahydro-2 naphthyl,
 2130²
 Hydrocinamaldehyde, α ethyl, 4247²
 2 Pentanone, 5-pheoyl, 4550²
 Δ -1 Propanol, 2 methyl 3 β -tolyl, 2708¹
 Propiophenone, β -ethyl, 4540¹
 Valerophenone, 6394¹
 C₁₁H₁₁O₂ Acetophenone, 2 hydroxy 5-propyl
 930¹
 Benzene, 1 alkyl 2 4-dimethoxy, 5506²
 — 2 4 dimethoxy 1 propenyl, 5506²
 — 4 isobutyl 1,2 methylenedioxy, 4247²
 Benzoic acid Bu ester 1708¹
 2 Butanone, 4 β acetyl, 691¹
 Butyric acid, α -tolyl ester, 929²
 α γ α -Decaltiltaneone acid, Me ester
 694¹
 Hydrocinamaldehyde, α methoxy α
 methyl 4247²
 Hydrocinamic acid α (and β) ethyl, 936²
 Iodan 5 6 dimethoxy, 694¹
 Δ -1 Pentenone 1 (2 furyl) 4 4 di
 methyl, 1245²
 Phenol 2 ethoxy-4 (and 5) propenyl, 5156²
 Propionic acid, xylol ester, 929²
 Propiophenone 4 hydroxy 3 5 dimethyl,
 929²
 Valeric acid, 4 pheoyl 4003²
 Valerophenone, β hydroxy 2228¹
 Veratrole, 4 alkyl 1945¹ 4277²
 —, 4 propenyl, 2984² 4277²
 C₁₁H₁₁O₂ Benzoic acid β ethoxy Et ester,
 3311²
 Benzyl alcohol, β (methoxymethyl) ace
 tate 4540¹
 β Cresol 2 ethoxy, acetate 3977²
 4 3 Cresotic acid 6-isopropyl 935²
 Dehydroangustolone 2421¹
 Isochambetol, methoxy 4866²
 Isocugenol, methoxy 4866²
 Isovalerophenone, 2 4 dihydroxy 4865²
 Phenol 2 (methoxymethoxy)propenyl
 5409¹
 1 Propanol 2 methyl 3 (3,4 methylenedioxy
 phenyl), 4247²
 β -Toluic acid, 4-ethoxy, Me ester, 3311²
 C₁₁H₁₁O₂ Acetophenone, 3 β ,5-trimethoxy
 3324²
 Benzaldehyde, ethoxydimethoxy, 707²,
 708¹
 Divanillic acid, 5413¹

- Propiophenone hydroxydimethoxy 420⁰
 Veratric acid 6 ethyl 1252^x
 3 4 Xylic acid 2 6-dimethoxy 288¹
- C₁₁H₁₂O₅S** *p*-Toluenesulfonic acid tetrahydro-
 furylester 1245⁴
- C₁₁H₁₀O₅** Isaronic acid Me ester 5154⁷
 Benzene acid ethoxydimethoxy 707⁷ 708⁷
 — 3 and 4) ethoxymethoxy-4 (and 3)
 methoxy 5156⁷ 515⁷
 1 2 3 Cyclohexanetricarboxylic acid 2 4
 dimethyl anhydride 3657⁹
 Glycerol 1-cresotate 3639⁹
o-Toluic acid trimethoxy 100⁹ 4565⁹
- C₁₁H₁₂O₅** Δ¹-Bicyclo[2 1 0]pentene-2 3-dicar-
 boxylic acid 1 4-dihydroxy di Et ester
 3631⁹
 Δ¹ 1 2 Cyclopropanedicarboxylic acid
 3 5-dihydroxy di Et ester 3631⁹
- C₁₁H₁₄N₂O₅** Arsanilic acid *N* (dimethyl
 carbamylacetyl) and Na salt 5407⁷
 Arsanilic acid *N* ethylcarbamylacetyl
 and Na salt 5407⁷
 — *N* (4-methylcarbamylpropionyl) and
 Na salt 2705⁷
- C₁₁H₁₂Br₂** *m*-Xylene 4 bromopropyl 693¹
C₁₁H₁₂Br₂N₂O₅ See *Pervon*
C₁₁H₁₂BrO₅ Ribose 1 bromotriacetyl 4229⁴
C₁₁H₁₂Br₂N₂S Benzothiazole 5-methyl 1 pro-
 pylammonium hydrobromide 4881¹
- C₁₁H₁₂ClN₂S** Leuca *o*-*p*-chlorophenyl *β* iso-
 butylthio- 4881¹
- C₁₁H₁₂ClO₅ Δ¹** Indanacetyl chloride 3a 4 3 6
 7 7a hexahydro- 3333⁹
- C₁₁H₁₂ClO₅S** Toluene sulfonfyl chloride see
 butyl 283¹
- C₁₁H₁₂ClO₅** Toluene *o*-chloro-4-ethoxy 3 5-di-
 methoxy P 4284⁴
- C₁₁H₁₂ClO₅** Xylose *β* acetochloro 920⁹
- C₁₁H₁₂HgI₂O₅** Ethylmethylphenacylsulfonium
 mercuriodide 690⁹
- C₁₁H₁₂I₂O₅** Ethylmethylphenacylsulfonium so-
 diide 690⁹
- C₁₁H₁₂N₂** 1-Camphoenitrile 1822⁹
 2 Iodoacetamidic hexahydro- 3333⁹
 333⁹
 Piperidine 2 phenyl 3099⁴
 Pyrrolidine 1 benzyl 951¹
 — 2 methyl-4 phenyl 399⁴
 — 1 *p* tolyl and chlorophenylate 951¹
 Quinoline 1 2 3 4-tetrahydromethyl and
 HCl 7631¹
- C₁₁H₁₂NO** 2-Butanone 3 methyl 1 phenyl
 oxime 5143⁷
 Cyclohexylamine *N* 2 fural 1630⁷
 2 Indanamine 1 methoxy *N* methyl and
 HCl 2139⁷
 1 Naphthol 1 2 3 4-tetrahydro-2 methyl
 amino, and HCl 2139⁷
 Pivalophenone oxime 5143⁷
- C₁₁H₁₂N₂O₅** Acetamide, *p* isopropoxy P 2245⁹
 Acetamide *m* propoxy 3669⁹
 Acetylaldehyde methoxy 930⁹ 2424⁹
 Anhydrosquarone oxime 212⁹
 Benzene acid *p*-(*β*-aminoethyl) Et ester,
 2194¹
 2 Butanone 4-*p*-amyl oxime, 691¹
 Δ¹ Cyclopentanecarboxylic acid *o*-cyano-3-
 methyl Et ester 423¹, 5403¹
 Glycine *γ* phenylpropyl ester, 3814⁹
 Propiophenone *β*-(methoxymethylamino),
 and HCl 500¹
 Thymoquinone, *O*-methylamine, 633¹
- C₁₁H₁₂NO₅S** Carbamic acid, (3,4-dimethoxy-
 phenethyl)dithio-, *NH*, salt, 4241¹
- C₁₁H₁₂NO₅** (See also *Lactophenase*)
 Anisole 2 isopropyl 5-methyl-4-nitro-, 933⁷
 Carbamic acid, (*p*-methoxyphenethyl), Me
 ester 5403¹
 Homomperonyl alcohol, *α* methyl *β*-methyl-
 amino-, 1814¹
- C₁₁H₁₂NO** Benzene, 2-ethoxy 1 nitro-4-
 propoxy, 5669⁴
 Glutamic acid cyanomethyl, di Et ester,
 2695¹ 2696¹
 2 5-Pyrroledipropionic acid, 1 methyl,
 3647⁹
 2 Pyrrolesuccinic acid, 3-methyl, di Me
 ester, 3647⁹
n-Toluidine 2, 4, 5-trimethoxy, 4565⁹
- C₁₁H₁₂NO₅** *o*-Toluic acid, *α* amino-3, 4, 5-tri-
 methoxy, HCl, 1226¹
- C₁₁H₁₂NO₅** 3 Pyrrolidinemethylmalonic acid,
 (carboxymethyl) keto-4 methyl, 4263¹
- C₁₁H₁₂N₂** Isocyanic acid, Ph ester, diethylhydra-
 zone 2120⁹
- C₁₁H₁₂NO₅** Butyrophenone (*α* or *β*) thiosemi-
 carbazono-, 2137¹
- C₁₁H₁₂N₂O₅** Butyrophenone, hydroxy, semicar-
 bazono-, 1228¹
 Carbamic acid, acetyl, Et ester, phenyl
 hydrazono 3651¹
 3 Pentanone, *p*-nitrophenylhydrazono 5408⁴
 2 Propanone, 1 *p*-amyl, acmcarbazono-,
 691¹
- C₁₁H₁₂N₂O** Phenol 2,4-dinitro-, compd with
 piperidine, 2726⁴
- C₁₁H₁₂N₂S** Acetone, thio-4 *p* tolysemicarbazono-,
 122⁴
- C₁₁H₁₂N₂O₅** Burea, 1 allyl 6-andino-2 thio-,
 3631¹
- C₁₁H₁₂P₃** 3-Thiaphosphorane, 2,2-dihydro-
 2 2-dimethyl-3-thio 2 (2 5-xylyl), 2702¹
- C₁₁H₁₂** Benzene, amyl, 3169¹, 5323¹
 Benzene, 1-ethyl-4 propyl, 4040¹
 —, pentamethyl, 5890¹
 Toluene *m* (and *p*) sec butyl, 283¹
 — *m* (and *p*) *tert* butyl, 283¹
- C₁₁H₁₂N₂** 1-Camphoenitrile, bromohydrate,
 1823¹
- C₁₁H₁₂BrNO₅** Benzenesulfonamide, *N* amyl *p*-
 bromo-, 2704¹
- C₁₁H₁₂BrO₅** 2 Indanacetic acid, dibromohexa-
 hydro-, 3333⁹
- C₁₁H₁₂ClNO₅** 4-Isoquinolnol, 1,2,3,4 tetra-
 hydro-5-methoxy, methochloride, 516¹
- C₁₁H₁₂ClO₅** 1,1 Cyclobutanedicarboxyl chloride,
 3-amoxy, 2979⁹
- C₁₁H₁₂NO₅** 4-Isoquinolnol, 1,2,3 4 tetra-
 hydro-5-methoxy, methochloride 516¹
- C₁₁H₁₂N₂** Pyridine, 3-(1-ethyl 2 pyrrolidyl), and
 salt, 300⁹
- C₁₁H₁₂N₂O** Acetamide, *N* (*p*-dimethylamino-
 benzyl), 4213⁷
 2(1) Pyridone 1 methyl 3 (1 methyl-
 2 pyrrolidyl), 2149¹
- C₁₁H₁₂N₂O₅** (See also *Polocarpine*)
 Aniline, *N*, *N*-dimethyl-4 nitroso-3 propoxy,
 and HCl, 5669⁴
 Cresol, *o*-dimethylamino- methylurethan,
 -HCl 4623¹
 Phenol, *p* [(*α* ethylpropyl)nitrosoamino],
 2954¹
- C₁₁H₁₂N₂O₅** (See also *Sandopial*)
 2 Pyrrolicarboxylic acid, 4-acetamido-3,5-
 dimethyl, Et ester, 961¹

- Urea, (3,4-dimethoxyphenylethyl), 5405²
 C₁₁H₁₇N₃O₄ 3 Hydantioacetone acid, cyclohexyl ester, 4228²
 C₁₁H₁₇N₃O₄ Urea, α -propylthio- β p tolyl 4881²
 C₁₁H₁₇N₃O₄ Acetone, 4- α -toluaminoacetone 3634⁴
 C₁₁H₁₇N₃O₄ Butyropheone α (or β) thiosemicarbazido-oxime 2132²
 C₁₁H₁₇N₃O₄ Amylamine, picrate 70²
 Diethylamine, N methyl picrate 5396²
 Isoamylamine, picrate 70² 2626²
 C₁₁H₁₇N₃O₄ Amylamine silyphate 70²
 Isoamylamine silyphate 70²
 C₁₁H₁₇O₄ Anisole, α -isobutyl 4247²
 Benzyl alcohol α , α -diethyl 3643²
 Ether, benzyl *tert* butyl 931¹
 —, ethyl β methylphenethyl 5154¹
 —, isomethylphenyl, 1797¹ 2706⁴
 1 Pentanol 5-phenyl, 1815²
 Phenol amyl 1229²
 —, 2-ethyl-4 propyl 930²
 —, pentamethyl 4333²
 Phenol ether b₁ 110-2² 3438²
 1 Propanol 3 (2,4-xylyl) 693²
 2,6-Xylenol 4 propyl 619²
 C₁₁H₁₇O₅ Camphocarboxylic acid δ thio salts P 1336² 3326²
 C₁₁H₁₇O₅ Benzaldehyde di Et acetal 1798 4323²
 3 Bornylaminoacetic acid 5158^{1,2}
 Camphenecarboxylic acid 1822² 5158²
 Camphor, 3 (hydroxymethylene) 692² 1234²
 Cyclohexanol 1-ethyl-4 methyl acetate 4857²
 2 Heptanone 4 (2 furyl), 5424²
 2 Hexanone, 4 (2 furyl) 5-methyl 5424²
 Δ^2 Indanone 3a 4 5 6 7 7a hexa hydro- 3333² 3334²
 2 Indenone 3a 4 5 6 7 7a hexa hydro 3333² and HBr 3333²
 7 Norcamphenecarboxylic acid 2 hydroxy 2,3 3-trimethyl lactone 5156²
 1 5-Pentaoedol, 3 phenyl 1832²
 Phenol α amoxy, 5408²
 —, m (α -methylbutoxy), 5408²
 1 Propanol 3 α -amyl 2 methyl, 4247²
 Resorcinol, 4-isomethyl 4865²
 5 6-Spirodecane 6 8-dione 5-methyl 280²
 C₁₁H₁₇O₆ Angustione 2121²
 Benzene α -ethyl 1,2,3 trimethoxy 2707²
 Camphocarboxylic acid 5158² Ag salt 4760² 5817² Na salt 3079²
 C₁₁H₁₇O₆ Toluene sulfonamide, *tert* butyl, Bz salt 283²
 C₁₁H₁₇O₆ Benzyl alcohol, 4-ethoxy 2,5-di methoxy, P 4284²
 3 Camphenecarboxylic acid 2 3 epoxy 2 hydroxy, 4870²
 Camphocarboxylic acid 3 hydroxy 4870²
 Glutamic acid, β (β , β -dihydroxy- α - α -methylpropyl) β methyl, cyclic lactone, 3932²
 C₁₁H₁₇O₆ Acetonequide, methyl, 3349²
 Cyclohexanone, 2 hydroxy 4 6 (isopropyl idenedoxy) (7), acetate, 2349²
 C₁₁H₁₇O₆ 1,2,3-Butanetriacetic acid, 1 hydroxy γ -lactone, di Et ester, 1833²
 1,2,3 Cyclohexanetriacetic acid, 2,4 dimethyl, 3657²
 Pseudoglucal, diacetyl, α methyl lactide, 2977²
- C₁₁H₁₇O₇ Anhydromethylglucoside diacetate, 888²
 C₁₁H₁₇O₇ Lyxonic acid, triacetate A salt 2-9²
 C₁₁H₁₇AsO₇ Benzenecarboxylic acid α isomaxy 4563²
 C₁₁H₁₇BrO₇ 3 Camphenecarboxylic acid 2 bromo- 5156²
 Camphenecarboxylic acid bromohydrate 1627² 1823²
 7 Norcamphenecarboxylic acid 2 bromo- 2 3 3 trimethyl 5156²
 C₁₁H₁₇N₂O₇ Aniline N isomyl 1797² HBr 4241²
 Butylamine γ methyl β phenyl and HCl 2708²
 α Camphenecarboxylic acid 1 methyl 3982²
 Mendeine N N dimethyl and HCl 4-73²
 Phenethylamine, p -isopropyl and HCl 2124²
 C₁₁H₁₇NO₇ Aniline N N dimethyl m propoxy, 5669²
 Aniline p isomaxy and salts 2706^{1,2}
 Benzyl alcohol α (α ethylaminoethyl) P 4556²
 1 Camphenecarboxamide 1822²
 Cyclohexylamine N (2 furylmethyl) 1810²
 2 4 Xylenol, α -methoxy γ γ dimethyl, and chlorophenylate 1814²
 C₁₁H₁₇NO₈ Broxyl alcohol, α (β methyl- α methylaminoethyl) and HCl 2133²
 Cyclopentanecarboxylic acid α -cyano-3 methyl Et ester, 5403²
 Guaiacol (α dimethylaminoethyl) 4241²
 Phenethylamine 4-ethoxy 3 methoxy and HCl 2134²
 1 Propanol 3 methoxy 2 methylamino 3 phenyl, 2133¹
 2 Pyrrolidonecarboxylic acid, 3 methyl 3 propyl Et ester 3010²
 C₁₁H₁₇NO₈ Benzenesulfonamide γ amyl 2704²
 p -Toluenesulfonamide N butyl 2704²
 C₁₁H₁₇NO₈ (See also Methylol)
 Angustione amino- 2121²
 Bases α 143-6² and 160-7² from acetone bromide of isochavicol acetate, 4538²
 Phenethylamine trimethoxy 2134² 5404²
 and salts 5405² salts 5100²
 C₁₁H₁₇NO₈ Sulfilamine S 5 bar(β hydroxy ethyl) N p tolylsulfonyl 2114²
 C₁₁H₁₇N₂O₈ Cyclic urethan, m 145², from methyl acetonequide 3349²
 C₁₁H₁₇N₂NaO₈ (See also Sodium amylal)
 Sodium pentobarbital 5932²
 C₁₁H₁₇N₂O₈ Guanine, α (α methylphenyl) P 1263²
 C₁₁H₁₇N₂O₈ Cyclohexanone 2 cyclohexylidene-semicarbazone, 2420²
 Methanol(4 7)indene-5(4)-one, 2,3,3a,6,7,7a hexahydro- semicarbazone, 1807²
 Safrinacampor semicarbazone, 110²
 Semicarbazide, 1,1-diethyl 4 phenyl, 2126²
 C₁₁H₁₇N₂O₈ Guanine, α (α methylphenyl), acetate, 4534²
 2 Hexanone 4 (2 furyl), semicarbazone, 5424²
 C₁₁H₁₇N₂O₈ α -Heptanone acid β (α -hydroxyisopropyl) α -keto γ lactone semicarbazone, 1512²
 7 Norcamphenecarboxylic acid, 2-*tert*-1,7 dimethyl semicarbazone, 1823²
 C₁₁H₁₇N₂O₈ 4661²

- Δ¹ Bicyclo[3.1.1]heptene 3 4 7 7 tetra methyl 363⁷⁵
 Norpinane 4 7 7 trimethyl 3 methylene-363¹
 C₁₁H₁₅NO α-tetrazole acid λ amyl 4863⁵
 α-Arsanic acid λ isoamyl 4863¹
 C₁₁H₁₅BrNO Penline 3 α-bromocaproyl 7⁵
 C₁₁H₁₅ILN Diethylmethylphenylammonium metacrylonitrile 687⁹
 C₁₁H₁₅ILP Trimethyl 2 5-xylylphosphonium iodide HgI₂ deriv 2702³
 C₁₁H₁₅INO β-Hydroxyphenethyltrimethylammonium iodide 1241
 γ -Hydroxyphenethylmethylphenylammonium iodide 1814
 C₁₁H₁₅IP Trimethyl 2 5-xylylphosphonium iodide 2702¹
 C₁₁H₁₅ILP Trimethyl 2 5-xylylphosphonium tri iodide 2⁷⁰²
 C₁₁H₁₅N₁ Pyridine 2 β-diethylaminoethyl 42 0⁴
 C₁₁H₁₅N₁O Ephedrine β amino- γ methyl HCl, P 3363³
 Phenol β (α-bis(methylamino)propyl) and H₂SO₄ 4538¹
 O₁₁H₁₅N₁O₁ See also Amyal Nembutal
 Barbituric acid 3-amyl 5-ethyl and salts P 5249⁷
 Pyrimidine 3-sec butyl 2 4 6-trimethoxy 4229¹
 Xylylenediamine dimethoxy 3226¹
 C₁₁H₁₅N₁O₁S 4-Pyrimidinylaldehyde 2 ethyl mercapto (1 6-dihydro 6 keto- di Et acetal 3001¹
 O₁₁H₁₅N₁O₁ Malonic acid allylcarbamido- di Et ester 1493¹
 C₁₁H₁₅N₁O₁ Carbanic acid λ , λ glutarylides di Et ester 3064¹
 C₁₁H₁₅N₁O₁ Histidine λ valyl 5160¹
 C₁₁H₁₅N₁O₁S₁ 2 3-Benzotriazole 1 methoxy 6-nitro- compd with Me₂SO₄ 4206¹
 O₁₁H₁₅CO Camphor 4 methyl 2 3952⁷
 β -Homocamphor 2990¹
 C₁₁H₁₅O₁ Campholenic acid 1 methyl 3982¹
 Δ^1 -Cyclohexenecarboxylic acid 4 methyl Et ester, 280¹
 Epitcamphor 3 hydroxy 3-methyl 4571¹
 2 Iodanacetic acid, hexahydro- 3333³
 Me ester, bp 93 5° of acid from piperitone 939¹
 1 Norcamphanecarboxylic acid 2 3 3-trimethyl 1822¹
 C₁₁H₁₅O₁ 3-Camphanecarboxylic acid, hydroxy 5155¹ 5156¹
 Camphanecarboxylic acid, hydroxy 1823¹
 Cyclohexenepropionic acid 3 keto-1 methyl Me ester 2987¹
 Cyclopentanecarboxylic acid 3-α-dimethyl acetonyl 1822¹
 2 Iodanacetic acid, hexahydro-2 hydroxy 3333³ 3334¹
 7 Norcamphanecarboxylic acid 2 hydroxy-2,3,3 trimethyl, 5156
 Orthoacetic acid, phenyl, Et di Me ester, 213¹
 C₁₁H₁₅O₁ Caryophyllene acid, di-Me ester 2058¹
 1 1 Cycloheptenediacetic acid, 3664¹
 Malonic acid, butylidene- di Et ester, 2116¹
 C₁₁H₁₅O₁S Camphorsulfonic acid, Me ester, 3322¹
 C₁₁H₁₅O₁ 1,1 Cyclobutanedicarboxylic acid, 3 amoxy, and Ca salt, 2979¹
 Malonic acid, acetonylmethyl, di Et ester, 3631¹
 —, (α-ethoxyethylidene), di Et ester, 2976¹
 1 4 Pyrrolo 4-dicarboxylic acid, tetrahydro-, di Et ester, 681¹
 C₁₁H₁₅O₁ 1,2,5-Pentanetriol, triacetate, 4526¹
 C₁₁H₁₅O₁ d Glucose, 3 acetyl isopropylidene-, 4779¹
 C₁₁H₁₅SeNO₁ Leucine γ (N-bromoacetyl alanyl), 2693¹
 C₁₁H₁₅ClO₁ Malonic acid, (γ-chloro-β-methoxy propyl) di Et ester, 2979¹
 C₁₁H₁₅N₁ Cyclohexylamine, λ (β-methyl Δ^1 -butenylidene), 1810¹
 β -Pentenitrile, α, β dimethyl, 2116¹
 Pyrrole 2 methyl 3 4 diisopropyl, 3010¹
 C₁₁H₁₅NO α-Campholenamide, 1 methyl, 3983¹
 Camphor β methyl, oxime, 3982¹
 β -Homocamphor, oxime, 2990¹
 1 Norcamphanecarboxamide 2 3,3-trimethyl 1822¹
 1 Pyrrolopropanol, α, α-dimethyl, 1826¹
 2(3) Pyrrolone, 5-hexyl 1 methyl, 1484¹
 C₁₁H₁₅NO₁ Malonic acid, isobutyrylamino-, di Et ester, 5399¹
 C₁₁H₁₅N₁O Cyclooctanone, 2-cyclopentyl, semicarbazone, 2421¹
 2 Iodanecarboxamide, 3,3a 4,3,6,7 hexahydro-3,6-trimethyl, 603¹
 2 Propanone, 1 (3 and 4) methylcyclohexylidene, semicarbazone, 250¹
 C₁₁H₁₅N₁O₁ Cyclohexanepropionic acid, 3 keto-1 methyl semicarbazone 2987¹
 C₁₁H₁₅N₁O₁ 2 Ixanone, 3,6-dihydroxy, semicarbazone, diacetate 488¹
 C₁₁H₁₅N₁O₁ Glyoxime, N { λ (V-carboxyglycyl) glycol }, di Et ester, 2974¹
 C₁₁H₁₅ Cyclohexane, cyclopentyl 2 2080¹
 3-Hexene, 2112¹
 Naphthalene, b 200-2° from brown-coal tar oil 3463¹
 C₁₁H₁₅BrNO₁ Isovaleric acid, β (α-bromoisocaproylamino), 78¹
 Valine λ (α-bromoisocaproyl), 493¹
 C₁₁H₁₅ClHg₁N₁O₁ Malonamide, α-α-bis(chloromercuro) γ , γ diisobutyl, 1219¹
 Malonamide, λ , λ -diethyl-α, α-bis(chloromercuro), 1219¹
 C₁₁H₁₅N₁O₁ Cyclohexanecarbanic acid, 2 iodo-, Bu ester, 3617¹
 C₁₁H₁₅N₁ Pyrazine, tetrahydrohexamethyl methylene-, 2725¹ and chlorophtaleic, 516¹
 C₁₁H₁₅N₁O₁ 3,1 Cyclobutanecarboxamide, 3-amoxy 2979¹
 Leucine, λ prolyl, 2974¹
 Proline, 1 leucyl, 77¹
 —, 1 norleucyl, 77¹
 2 Pyrrolohexanecarboxamide, 1-α-hydroxy caproyl, 77¹
 —, 1 (α-hydroxyisocaproyl) 77¹
 C₁₁H₁₅O₁ 2 Camphanecarbol, 50¹
 Δ^1 -Cyclohexenecarbol, α-ethyl-, α,4-di-methyl, 4837¹
 Pinocarveol, methyl, 3635¹
 C₁₁H₁₅O₁ Cyclohexanecarbol, α 4 dimethyl, acetate, 4837¹
 Hydrosorbic acid, α ethyl β methyl, Et ester, 4524¹
 Undecanaphthene acid, 3639¹
 Undecylenic acid, 489¹, P 2735¹, 3314¹

- C₁₂H₂₁O₂: Levulinic acid, hexyl ester, 5308²
Pyruvic acid, β -octyl ester, 5397²
Valeric acid α acetyl α - β -dimethyl, Et ester, 3312²
- C₁₁H₂₁O₂: Glutaric acid, β , β -dipropyl 3664²
Pimelic acid di Et ester, 2118²
 β , β -Spiro m -dioxane 2,2,2',2' tetra methyl, 1801²
- C₁₁H₂₁O₂: Malonic acid, (β -ethoxyethyl), di Et ester, 3955²
- C₁₁H₂₁O₂: Glucoside, ethylenedimethyl di Me ether, 3401²
Mesoxalic acid, di Et ester, di Et acetal 3629²
- C₁₁H₂₁O₂: Mucic acid, 2,3,4-trimethyl di Me ester, 2118²
- C₁₁H₂₁O₂: Cyclohexanecarboxylic acid dithio Ba ester, 500²
- C₁₁H₂₁BrN: Lupinane, α -bromo- methyl iodide 3007²
- C₁₁H₂₁BrO₂: Undecylic acid α -bromo- 459²
C₁₁H₂₁Cl: Undecaphenyl chloride 3630²
- C₁₁H₂₁ClO₂: Undecylic acid α -chloro- hydroxy 3314²
- C₁₁H₂₁N₂: 2,5-Dihydro-1,2,3,5,5,6-hepta-methyl-1-pyrazinium iodide 516²
- C₁₁H₂₁NO: Formamide N- β -methyl-, 1233
1-Propanol-3 (cyclohexylamino) 2,2-di-methyl, 1810²
Valeromitrile, α - β -triethyl α -hydroxy 2116²
- C₁₁H₂₁NO₂: Malonic acid, aminoisobutyl di Et ester, 1493²
Pelargonic acid, β -(carbamethoxymino) 490²
- C₁₁H₂₁N₂O: Cyclohexanone, 2-butyl semicarba-zone, 1808²
- C₁₁H₂₁N₂O₂: Levulinic acid, isomyl ester semi-carbazone 490²
- C₁₁H₂₁N₂O₂: Undecene 3163² 4751²
Undecanaphthene 3630²
- C₁₁H₂₁NaN: Disomamylgold cyanide, 4220²
- C₁₁H₂₁N₂: 2,5-Dihydro-1,2,3,5,5,6-hepta-methyl-1-pyrazinium hydrosulfate 2728²
- C₁₁H₂₁N₂O: Isovaleric acid, β -(leucylamino) 78²
- C₁₁H₂₁O: Cyclopentanol, 2,5-dipropyl 4234²
Undecanaphtheneol 3630²
- C₁₁H₂₁O₂: Caprylic acid, β -methyl, Et ester 3627²
Pelargonic acid Et ester 6223²
Undecylic acid K salt, 1721²
- C₁₁H₂₁O₂S: Undecylic acid, α -mercapto- 3314²
- C₁₁H₂₁O₂: Glucoside, tetramethyl- γ -methyl, 5666²
Mannopyranoside tetramethyl- β -methyl, 1222²
"Tetramethoxymethylketoside from α -methoxyhydracrylaldehyde and CO (CH₃OH), 1223²
- C₁₁H₂₁O₂S: Undecylic acid, hydrosulfate- 3314²
- C₁₁H₂₁N: Cyriobexylamine, N-nonyl, and -HCl, 1809²
Cyriobexylamine, N-(β -methylbutyl), and HCl, 1810²
Pyrioludine, 1-methyl-2,2-dipropyl, 102²
- C₁₁H₂₁NO: 1-Propanol, 3-cyclohexylamino-2,2-dimethyl, and -HCl, 1810²
- C₁₁H₂₁NO₂: Leucine, isomyl ester, -HCl, 2742²
Pelargonic acid β -amino-, Et ester -HCl, 490²
- C₁₁H₂₁N₂O: Semicarbazide 1 (2-butylcyclo-hexyl) 1508²
- C₁₁H₂₁N₂O₂: Caproaldehyde α -butyl- α -hydroxy semicarbazone 2118²
- C₁₁H₂₁N₂O₂: 2,4-dimethyl 513²
- C₁₁H₂₁INO: 1-Methoxybutyl-1-methylpiperi-dine iodide 1814²
- C₁₁H₂₁N₂: Base from reduction of lipanecyan-amine and chlorophyll water 3005²
- C₁₁H₂₁N₂O₂: γ -Dithioxypropyldimethylhydra-zine acid oxalate 4238²
- C₁₁H₂₁O₂: Butane 1-amoxy-4-ethoxy 4221²
- C₁₁H₂₁O₂: Glucose 2-methyl di Et mesitral 1808²
- C₁₁H₂₁N₂O: Seminal acids, 1,2,3-triethyl-propyl 2410²
- C₁₁H₂₁INO: (β -ethyl- β -hydroxybutyl)trimethyl-ammonium iodide 452²
- C₁₁H₂₁SO₂: Sulfone triethylammonyl 4536²
- C₁₁H₂₁F₂N₂: Barium ferrocyanide 634² 5335²
- C₁₁H₂₁F₂N₂: Calcium ferrocyanide P 385²
- C₁₁H₂₁F₂K₂N₂: Potassium cupriferrrocyanide 245²
- C₁₁H₂₁N₂Na₂Zn: Sodium zinc ferrocyanide, 4480²
- C₁₁H₂₁N₂: See ferrocyanide
- C₁₁H₂₁F₂N₂Na₂Zn: Sodium zinc ferrocyanide, 4480²
- C₁₁H₂₁N₂O₂: Pyrido[2,3- β]quinoline 5(10)-one, tetrabromodinitro- 3651²
- C₁₁H₂₁NO₂: Naphthalic anhydride, 3-bromo-4-nitro- 1518²
- C₁₁H₂₁N₂O₂: Pyrido[2,3- β]quinoline 5(10)-one dibromodinitro- (4,6)- 3651²
- C₁₁H₂₁CdN₂O₂: Cadmium picrate 2628²
- C₁₁H₂₁Cl₂: Biphenyl hexachloro, 940²
- C₁₁H₂₁BrN₂O: Pyrido[2,3- β]quinoline 5(10)-one, bromodinitro 3651²
- C₁₁H₂₁BrO₂: Acenaphthenequinone, 3-bromo 1515² 2715²
- C₁₁H₂₁BrO₂S: Naphthalic anhydride, bromosulfon-ate α -hydroxy 1516²
- C₁₁H₂₁BrO₂: 1,4-Naphthoquinone, 2,6,8-tri-bromo-5-hydroxy, acetate, 512²
- C₁₁H₂₁BrNO₂: Acetamide N-tetrabromodi-hydroxylonaphthyl, 1516²
- C₁₁H₂₁NO₂: Naphthalic anhydride 2-nitro-, 3688²
- C₁₁H₂₁Cl₂N: Phthalazine, 1,2,3,4-tetrachloro-1,6-dihydro-, 2147²
- C₁₁H₂₁BrClN₂O: Phenol 3-chloro-4-nitroso-, compd with 3-bromopieric acid, 5659²
- C₁₁H₂₁NO₂: Naphthalic acid, 4-bromo-5-nitro-, 1518²
- C₁₁H₂₁BrO₂: Dibenzofuran dibromo-, 2703²
- C₁₁H₂₁BrO₂S: Phenothiazine, 3,6-dibromo-, 3338²
- C₁₁H₂₁BrO₂: 1,4-Naphthoquinone, 2,6-dibromo-5-hydroxy, acetate, 512²
- C₁₁H₂₁BrN₂O₂: Diphenylamine, 2,2',4-tribromo-4,6-dinitro-, 1503²
- C₁₁H₂₁BrO₂: 2-Naphthol, 1,3,6,7-tetrabromo-, acetate, 910²
- C₁₁H₂₁BrO₂: 2-(1-Naphthalenone), 3,3',3'',5,5'-hexabromo-3,4-dihydro-4-hydroxy, acetate 946²
- C₁₁H₂₁ClN₂O: Phenol, 3-chloro-4-nitroso-, compd with 3-fluoropieric acid, 5669²
- C₁₁H₂₁ClN₂O: Phenol, 3-chloro-4-nitroso-, compd with 3-iodopieric acid, 5669²
- C₁₁H₂₁ClNO₂: 2,3- β -Naphthazinedione, 9-chloro-, P 1819²
- C₁₁H₂₁ClNO₂: Dibenzofuran, 6-chloro-2-nitro-, 2703²

$C_6H_4Cl_2N_2O_2S_2$ *p* *p* Benzenesulfonyl chloride 3-4-dinitro- 457¹

$C_6H_4Cl_2NO_2S$ Benzenesulfonyl chloride 4-4-thio- 1306

$C_6H_4Cl_2NO_2$ Phenol 3-chloro-4-nitroso-compd with 3-chloropropionic acid 566⁹

$C_6H_4Cl_2O$ Dibenzofuran 4,6-dichloro- 4-*Q*

$C_6H_4Cl_2O$ Naphthalene 4,6-dichloro- 935

$C_6H_4Cl_2NO_2$ Ether *p*-chloro-nitrophenyl 2-*p*-dichlorophenyl P 302²

$C_6H_4Cl_2N$ Azobenzene *o*-*o* tetrachloro 4561¹

$C_6H_4Cl_2O$ Azobenzene 3,3,4,4-tetrachloro- 9 P 363³

$C_6H_4Cl_2S$ Disulfide bis-2-*p*-dichlorophenyl 4560⁹

$C_{10}H_6Cl_2O_2$ 1-Naphthol *o*-4 lithosmano 1 375²

$C_6H_4Cl_2O_2$ Pyridone 1,4-dinitro-10-one 15 nitro 1801

$C_6H_4Cl_2O$ Acenaphthenequinone 15

$C_6H_4Cl_2O_2$ Naphthalenequinone 1 16-13 *para* Naphthalenequinone 13 *para* 335⁹

$C_6H_4Cl_2O_2$ 3-Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ 3-Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_6H_4Cl_2O_2$ Naphthalenequinone 16-13 *para* Naphthalenequinone 16-13 *para* 335⁹

$C_{12}H_4As_2Cl_2N_2O_2$ Diphenylamine, 2-dichloro-*para*-2,4-dinitro-, 105⁹

$C_{12}H_4As_2Cl_2$ Compd m 157.5°, from 2-sulfonophenylacetamide, 1228¹

$C_{12}H_4Br_2Cl_2O_2S$ Acenaphthensulfonyl chloride, bromo- 1518

$C_{12}H_4Br_2Cl_2O_2S$ Benzenesulfonyl chloride, *p*-(*p*-bromophenoxy), 1816⁹

2-Thioacethenecarboxylic acid 1-bromo-acetyl 5-chloro-3-methyl-, 5167¹

$C_{12}H_4Br_2F$ Biphenyl 4-bromo-4-fluoro-, 4253¹, 4542⁹

$C_{12}H_4Br_2NO_2$ Acenaphthene 3-bromo-4-nitro-, 1819⁹

Biphenyl 3-bromo-3-nitro-, 510¹

$C_{12}H_4Br_2NO_2S_2$ 1,3,6-Carbazoletrisulfonic acid 8-bromo- P 966¹

$C_{12}H_4Br_2$ Biphenyl 2,2-dibromo-, 4572⁹

$C_{12}H_4Br_2Cl_2S$ Stannane, bis(*p*-bromophenyl)dichloro- 2702⁹

Stannane dibromobis(*p*-chlorophenyl), 2702⁹

$C_{12}H_4Br_2I_2S$ Stannane bis(*p*-bromophenyl)iodo-, 2702⁹

Stannane dibromobis(*p*-iodophenyl), 2702⁹

$C_{12}H_4Br_2N_2$ Azobenzene, *p*-(*p*-dibromo-), 1238¹

$C_{12}H_4Br_2NO_2$ Xenylamine 2,4-dibromo-6-nitro- 4673¹

$C_{12}H_4Br_2O_2S$ Stannane di(*p*-bromophenyl) 2703¹

$C_{12}H_4Br_2O_2$ 2-Naphthol dibromo-, acetate, 915¹

$C_{12}H_4Br_2O_2S$ Phenol thioisobutyl-4-bromo-, 3467¹

$C_{12}H_4Br_2O_2$ Naphthalenediol dibromo-, acetate, 912¹, 915¹

$C_{12}H_4Br_2O_2S$ Benzenesulfonic acid, 2-bromo-6-bromophenyl 4572⁹

$C_{12}H_4Br_2S_2$ Stannane di(*p*-bromophenyl) 2703¹

$C_{12}H_4Br_2S_2$ Disulfide bis(*p*-bromophenyl), 2123¹

$C_{12}H_4Br_2S_2$ Benzenesulfonic anhydride, *p*-(*p*-dibromophenyl), 2703¹

$C_{12}H_4Br_2N_2O_2S$ Diphenylamine, 2,2',4-tetrabromo-, 1563¹

$C_{12}H_4Br_2NO_2S$ Sulfamic acid, 3-bromo-*N*-(2,4-dibromophenyl) salt 1503¹

$C_{12}H_4Br_2O_2$ Naphthalene, 2,6,6,6-tetrabromo-1,5-dimethoxy 512¹

$C_{12}H_4Br_2O_2$ Naphthalene, 1,1,3,3-tetra-bromo-3,4-dihydro-4-hydroxy acetate 915¹

$C_{12}H_4Br_2S_2$ Stannane, ditromobis(*p*-bromophenyl) 2702⁹

$C_{12}H_4Br_2O_2$ 2-Naphthol, 1,1,3,4,6,7-hexabromo-, 4,6,7-tetrahydro- acetate, 916¹

$C_{12}H_4Br_2K_2O_2$ + 11H₂O Potassium centrate 1750⁹

$C_{12}H_4Cl_2F$ Biphenyl, 4-chloro-4-fluoro-, 4542⁹

$C_{12}H_4Cl_2N$ Carbazole, 1-chloro-, P 1262⁹

$C_{12}H_4Cl_2O_2$ Acenaphthene, 3-chloro-4-nitro-, 3983⁹

Biphenyl, 3-chloro-3-nitro- 515¹

Iodophenol 2-chloro-, 1552¹, 2953¹, 3000⁹

$C_{12}H_4Cl_2NO_2$ Ether chloro-2-nitrophenyl phenyl, P 302², 2704⁹

Ether *p*-chlorophenyl-*o*-nitrophenyl, 2704⁹

$C_{12}H_4Cl_2NO_2S_2$ 1,3,6-Carbazoletrisulfonic acid, 8-chloro- P 966¹

$C_{12}H_4Cl_2N_2S_2$ 1-Isobenzotriazole, 1-chloro-6-phenyl, 273¹

$C_{12}H_4Cl_2NO_2$ Amine, 2-(2-chloro-4(*p*-nitro-phenoxy)-4-nitro-, 2704⁹

- CuH2Cl2 Acenaphthene, 3,4-dichloro-, 3989¹
 Biphenyl dichloro-, 4860^{1,2}
CuH2Cl2NO Ether, *p*-iodophenyl *o*-nitrophenyl, dichloride, 2705¹
CuH2Cl2Sn Stannane bis(*p*-chlorophenyl)ide, 2702¹
 Stannane dichlorobis(*p*-iodophenyl) 2702¹
CuH2Cl2N Azobenzene 2,5-dichloro- 4860¹
CuH2Cl2NO Hydrazine bis(4-chloro-2-pyridyl carbonyl), 2429¹
CuH2Cl2OSn Stannone di(*p*-chlorophenyl) 2702¹
CuH2Cl2O3 Phenol thalbis(4-chloro- 5407¹
CuH2Cl2O3 Benzenesulfonyl chloride *p* *o*-isomer, 1816¹
CuH2Cl2S Sulfide, bis(*p*-chlorophenyl) 2611¹
CuH2Cl2SSn Stannothione di(*p*-chlorophenyl) 2703¹
CuH2Cl2S2 Disulfide, bis(*p*-chlorophenyl) 2125¹
CuH2Cl2S3Sn Benzenesulfonyl chloride *p*, *p'*-dichlorobis- 2703¹
CuH2Cl2N Diphenylamine 3,4,5-trichloro 2146¹
CuH2Cl2NO Aniline 4-chloro-2 (2,5-dichlorophenyl), *p* 303¹
CuH2Cl2N4 Hydrazobenzene 2,2,5,6-tetra-chloro-, 4861¹
CuH2Cl2Sn Stannane dichlorobis(*p*-chlorophenyl) 2702¹
CuH2Cl2S2Sn Stannane dichlorobis(*p*-iodophenyl), tetrachloride 2703¹
CuH2FNO Biphenyl, 4-fluoro 4-nitro 4543¹
CuH2F2O3 3,3-Benzenesulfonyl fluoride 283¹
CuH2F2O3 *p* *p* Phenol bis(fluorosulfonate), 929¹
CuH2F2N4Te *p*, *p'* Bis(benzenediazotium hexafluorophosphate) 1764¹
CuH2F2N4Zn Ammonium zinc ferrocyanide, 6880¹
CuH2H2 1,2-Bismesumb phenyl 518¹ 957¹ 1831¹, 1832¹
CuH2INO Diphenyl 3-iodo-3-nitro 6157¹
CuH2INO Acenaphthene 3-iodo-2-nitro 3988¹
CuH2INO Ether *p*-iodophenyl *o*-nitrophenyl 2709¹
CuH2INO3 3,3,6-Carbasulfonamide acid 1-hydroxy 8-iodo-, *p* 963¹
CuH2INO3 1,3,6-Carbasulfonamide acid 8-iodo- *p* 966¹
CuH2IOSn Stannone, di(*p*-iodophenyl), 2703¹
CuH2IO3S Disulfonate bis(*o*-iodophenyl) 3338¹
CuH2IS2Sn Stannothione, di(*p*-iodophenyl), 2703¹
CuH2IS2S2Sn Benzenesulfonyl anhydride *p*, *p'* diiodobis- 2703¹
CuH2IS2Sn Stannane, diiodobis(*p*-iodophenyl), 2702¹
CuH2N2O Phenannol, 4885¹
 Pyridine(2,3-pyridine 5(10) one 3651¹
CuH2N2O2 Carbazole, 1-nitro-, *p* 1762¹
CuH2N2O3 *p* Biphenylamine, Azobenzene, 2819¹
CuH2N2O3 Isocoumaric anhydride, 3000¹
 Ketone, *o*-nitrophenyl 2-pyridyl 5673¹
 Nicotinic anhydride, 3000¹
CuH2N2O3 Acenaphthene 4-nitro-, 3988¹
 Biphenyl, dimetro-, 4252¹
CuH2N2O3S 3,8-Phenothianesulfonamide acid 5-nitro-, di *K* salt, 1506¹
CuH2N2O3S *p*, *p'* Bibenzenesulfonamide acid, 2,3'-dimetro-, 4871¹
CuH2N2O3S Benzenesulfonamide acid, 4,4'-thio-bis-3-nitro-, and salts 1506¹ 1506¹
CuH2N2O3S Benzenesulfonamide acid 4,4'-thio-bis-3-nitro- di *K* salt, 1508¹
CuH2N2O3S 1,3,6-Carbasulfonamide acid 8-nitro-, *p* 718¹
CuH2N2O3S Benzenesulfonamide acid 4,4'-sulfonylbis-3-nitro- and salts 1506¹
CuH2N2O4 Diphenylamine 2,4,6-trinitro-, 2892¹ 3321¹
 Puroxan 3,4,1-(5-methyl 3-isoxazolylen-benzyl) 4548¹
CuH2N2O4 1-Naphthalenesulfonamide acid 2,4,5-trinitro- Me ester 4875¹
CuH2N2O4S Sulfonamide acid *N* (2,4-dimetrophenyl) 3-nitro- *N* salt 1503¹
CuH2O Dibenzofuran 295¹ 2144¹ *p* 4256¹ 5097¹
CuH2O2 Diphenylquinone 502¹
 Naphthofuranone 3349¹
CuH2O2 Glyoxal 2-furylphenyl 4876¹
CuH2O2 Naphthalene dicarboxylic acid, *p* 116¹ *p* 603¹ 624 2987¹
CuH2O2 1,2-Thionaphthenedicarboxylic anhydride 5-ethoxy 5165¹
CuH2S *p* Naphtholubenzene 5166¹
 Thioanthrone 5166¹
CuH2S2ClF2O3 Benzenesulfonyl fluoride *m* (chlorophenyl) 284¹
CuH2S2ClN Phocarsazone 1-chloro-1,8-di-hydro- 107¹ 1831¹ 2146¹ 2720¹
CuH2S2Cl2 Phenylphenylglycid dichloride 4863¹
CuH2S2Cl2N 3-Acenaphthenediazotium chloro-sulfate, 3688¹
CuH2S2Br2O Boric acid bis(*p*-bromophenyl) 928¹
CuH2S2 Acenaphthene bromo- 1618¹ 3988¹
CuH2S2N Azobenzene *p*-bromo-, 1238¹
CuH2S2N2O Xenzylamine 2-bromo-6-nitro- 5673¹
CuH2S2N2O Aniline 2 (*p*-bromophenoxy)-4-nitro-, 2703¹
CuH2S2N2O Aniline *o*-nitro- *p*-nitro- 5810¹
 3-fluoro-, bromo-, picrate 3345¹
CuH2S2O Acenaphthosulfonamide bromo- 5417¹
CuH2S2O2 2-Naphthol 3-bromo acetate 943¹
CuH2S2O3 Acenaphthensulfonamide acid bromo- and *N* salt 1518¹
CuH2S2O3 Benzenesulfonamide acid *p*-(*p*-bromo-phenyl) *N* salt 1819¹
CuH2S2O3S Acenaphthenedisulfonamide acid, bromo-, and salts 1518¹
CuH2S2S 1-Acenaphthyl mercaptan, 3-bromo-, 3419¹
CuH2S2ClO Anthraquinone, 1 *p*-chloro-benzoyl, dibromo deriv., 3990¹
CuH2S2N2O3 Benzenesulfonamide acid 4,4'-thio-bis-3-bromo-, *N* salt 1503¹
CuH2S2N2O3 Acetone *α* *α*-dibromo *α* (2,4,6-trimethyl 3,5-dimetrobenzoyl), 2933¹
CuH2S2Br2O Naphthalene 2,4,6-trinitro-1,5-di-methoxy 312¹
CuH2S2Cl Acenaphthene 1-chloro-, 3988¹
 Biphenyl *α* and *p*-chloro-, 561¹
CuH2S2N Azobenzene, *p*-chloro-, 1238¹
CuH2S2ClNO Pyridine, 2-benzamido 4-chloro-, 2429¹
CuH2S2ClNO Aniline, 2 (chlorophenoxy)-4-nitro- 2703¹
CuH2S2ClNO3 Benzenesulfonamide, 4-chloro-3'-hydroxy 2-nitro-, 289¹

- C₁₂H₉ClNO₃S Benzenesulfonamide, 4-chloro-2-amino-1-hydroxy-2-nitro- 259^a
- C₁₂H₉ClNO₃ Quinone 2-chloro-1-oxime-4-p-tropheylhydrazine 453^a
- C₁₂H₉ClO₂ Acetyl chloride 1 (and 2) naphthoxy 132^a
- 2-Naphthyl chloride 3-methoxy 2135^a
- C₁₂H₉ClO₃ 1-Acenaphthenesulfonyl chloride 541^a
- Benzenesulfonyl chloride *o*-phenyl 48^a
- C₁₂H₉ClO₃S Benzenesulfonyl chloride *p*-phenox 1816^a
- Thionaphtheneacetic acid 1 acetyl-5-chloro-3-methyl 216^a
- C₁₂H₉Cl₂IO Ether *n*-iodophenyl phenyl di-chloride 1504
- C₁₂H₉Cl₂N Diphenylamine dichloro 492^a
- C₁₂H₉Cl₂NO 4-aniline 5-chloro-2-*p*-chlorophenoxyl and HCl 270^a
- C₁₂H₉Cl₂NO₂ Isorindoneacetic acid 4-7-di-chloro 1,3-di-keto Et ester 332^a
- C₁₂H₉Cl₂NO₂ Acenaphthene jodo 3958^a
- Biphenyl *o*-iodo-4-oxo 1
- C₁₂H₉Cl₂N₂O₂ Benzamide λ 4-iodo-2-pyridyl 74^a
- C₁₂H₉Cl₂IO Ether *o*-iodophenyl phenyl 1504^a
- C₁₂H₉Cl₂IO₂ 2-Naphthoic acid 3-iodo- Me ester 2140^a
- C₁₂H₉Cl₂ See Carbazole
- C₁₂H₉Cl₂NO Carbazole P 2302^a P 3012^a P 4412^a
- Dibenzofuran 2-amino- 290^a
- C₁₂H₉Cl₂NO₂ 1-isoleno-1,3-dithiazole 1-hydroxy-6-phenyl 2999^a
- C₁₂H₉Cl₂NO₂ Acenaphthene nitro 3955^a
- 1,6-Carbazolol P 1-6^a
- Dicarbonyl 23^a
- Furo[2,1-*b*]quinoline 6-methoxy 297^a
- Iodophenol 300^a P 5436^a
- Iodocarbonyl 297^a
- Naphthosyl 4-methoxy, P 965^a
- 2-Pyrrolealdehyde 1-benzoyl 793^a
- C₁₂H₉Cl₂NO₂ Acetamide, λ 5,8-dihydro-3,6-di-keto 2-naphthyl, P 429^a P 1394^a
- 1-ther *p*-nitrophenyl phenyl 1516^a
- 1-phenol λ (m-nitrophenyl) 515^a
- C₁₂H₉Cl₂NO₂ 7,8-Acenaphthene of 1-nitro- 3953^a
- Compound m 215^a from isokimmamine, 299^a
- 5-Quinolonecarboxylic acid 8-hydroxy, acetate 2-27^a
- C₁₂H₉Cl₂NO₂S 1,3,6-Carbazotetrakisulfonic acid, 8-hydroxy P 965^a
- C₁₂H₉Cl₂NO₂ Acenaphthene 3-thio- 3955^a
- C₁₂H₉Cl₂NO₂ Pyridine 2,3- β -quinoline 5(10) one, amino, and HCl 265^a
- C₁₂H₉Cl₂NO₂ Glutamide α -cynoso- β -(*p*-nitrophenyl) 3653^a
- C₁₂H₉Cl₂NO₂ Aniline 4-nitro-2-(*p*-nitrophenoxyl), 2^a
- C₁₂H₉Cl₂NO₂S Benzenesulfonic acid β -(*p*-nitrophenoxyl), 297^a
- C₁₂H₉Cl₂O₂ 1-Naphthaleneacetic acid, 2,4-dinitro, Me ester, 48^a
- C₁₂H₉Cl₂O₂ Benzene, picrate, 1815^a
- C₁₂H₉Cl₂O₂S Sulfamic acid λ (2,4-dinitrophenyl), λ salt, 1504^a
- C₁₂H₉Cl₂O₂ 1-phenol picrate, 151^a
- C₁₂H₉Cl₂O₂ Hydroquinone picrate, 1815^a
- Pyrocatechol picrate 1815^a
- Hexachloro picrate, 181^a
- C₁₂H₉Cl₂O₂ 1,2,4-Benzenetriol picrate, 1819^a
- 1-chloroquinol, picrate, 181^a
- Pyrocatechol picrate, 1515^a
- C₁₂H₉Cl₂O₂S Benzenesulfonic acid, 4,4'-amino-bis[3-nitro-, di λ salt, 1503^a
- C₁₂H₉Cl₂O₂ See Acenaphthene Biphenyl
- C₁₂H₉Cl₂O₂NO₂ *o*-Arsamic acid, λ (3,4-dichlorophenyl), 2147^a
- C₁₂H₉Cl₂O₂ Arsenic, chlorodiphenyl, dichloride, 109^a
- C₁₂H₉Cl₂O₂S Arsenic acid, (m-fluorosulfonyl) phenylphenyl, 2841^a
- C₁₂H₉Cl₂O₂S Benzenesulfonamide, *o*-diodo-arsyl, 93^a
- C₁₂H₉Cl₂O₂S Benzenesulfonamide, *o*-arsano-, 93^a
- C₁₂H₉Cl₂O₂S 5-1,3,5-Carbazotetrakisulfonic acid, 8-arsano-, P 966^a
- C₁₂H₉Cl₂O₂S *o*-Arsamic acid, λ (2,4-dinitrophenyl) 108^a
- C₁₂H₉BrN₂ 3-Acenaphtheneamine, 4-bromo-, 1518^a
- C₁₂H₉BrNO₂ Acetamide, N (4-bromo-2-naphthyl) 945^a
- Acetamide, α -bromo- λ 2-naphthyl, 293^a
- Acetonaphthone bromo-, oxime, 5417^a
- C₁₂H₉BrNO₂S Acenaphthene-sulfonamide, bromo- 1518^a
- C₁₂H₉BrNO₂ + H₂O Iodo-1-acetyl-8-bromo-, acetate hydrate 1523^a
- C₁₂H₉BrNO₂S Benzenesulfonamide, β (β -bromophenoxyl), 1516
- Sulfamic acid, λ (β -bromophenyl), λ salt 1503^a
- C₁₂H₉BrN₂ Melanoxanthine (3-bromo-4-dimethylammonobenzal), 1509^a
- C₁₂H₉Br₂ 519^a
- C₁₂H₉Br₂ Naphthalene, 2,8-dibromo-1,5-di-methoxy 512^a
- C₁₂H₉ClN₂ *o*-Biphenylamine, chloro-, 4560^a
- Diphenylamine, chloro-, 692^a, 2146^a
- C₁₂H₉ClNO₂ Acetamide, γ -chloro- λ N-2-naphthyl 944^a
- Aniline α -(chlorophenoxyl), and HCl, 2702^a
- , chloro-2-phenoxyl, 293^a, P 302^a and HCl, 2703^a
- C₁₂H₉ClNO₂ Carboxylic acid hydroxy, β -chloroethyl ester 954^a, 2245^a
- C₁₂H₉ClNO₂ 2-Isorindoneacetic acid, 5-chloro-1,3-di-keto-Et ester 3325^a
- C₁₂H₉ClNO₂S Benzenesulfonamide, amino-4-chloro-2-nitro-, 259^a
- C₁₂H₉Cl₂ 5109^a
- C₁₂H₉Cl₂ Naphthalene bis(chloromethyl), P 1839^a
- C₁₂H₉Cl₂NO₂ Benzidine 2,3-dichloro-, 4560^a
- Hydrobenzotene, 2-5-dichloro-, 4560^a
- C₁₂H₉Cl₂NO₂ Stannous, dichlorodiphenyl, 3976^a
- C₁₂H₉Cl₂NO₂ 1,3-Benzodioxan-5-carboxylic acid, 2,4-bis(dichloromethyl), Me ester, 5428^a
- C₁₂H₉Cl₂NO₂ Xanthine, 4-fluoro-, 4543^a
- C₁₂H₉Cl₂NO₂ New *m*-Banthine, 5,8-di-bromo-, 4253^a
- C₁₂H₉Cl₂NO₂ Germanium diphenylamide, de HCl 566^a
- C₁₂H₉Cl₂NO₂ Mercury diphenyl 3975^a, 5509^a
- C₁₂H₉Cl₂NO₂ Naphthalene 1 (and 2) (acetoxy mercur) 93^a
- C₁₂H₉Cl₂NO₂S Benzenesulfonic acid, β (phenyl mercuric) capta, 4068^a
- C₁₂H₉Cl₂NO₂ Aniline, α -(*p*-iodophenoxyl), and HCl 2702^a
- 2-11 Pyridone 1-benzyl-5-iodo-, 953^a
- C₁₂H₉Cl₂NO₂ Sublime, iododiphenyl, 1823^a
- C₁₂H₉Cl₂NO₂ Magnesium *p*-phenyl 3954^a

- C₁₂H₁₁NeO₂ 1 Bu 5th 1-cyclohexanecarboxamide, 4173^a
 Carbazole, 1 amino-, P 716^a P 966^a
 Harman, 3015^a 700^a, 4053^a 4056^a 4315^a
 C₁₂H₁₁N₂O (See also Azobenzene)
 1 Carbazole 8-amino-, P 1262^a
 Diphenylamine, N nitroso-, fluorenone
 1810^a
 Harmol, 4056^a
 Phenol, *p*-phenylazo-, 1503^a, 5151^a *add*
compd, 3321^c
 Pyridine, 3-levamido- and HCl, 3344^c
 C₁₂H₁₁N₂O₃ 4 Thiazoleacetamide, 2 *p* amyl
 952^a
 C₁₂H₁₁N₂O₄ 1 Acenaphthenamide nitro-, 3988^a 3
m Biphenylamine, 3 nitro- 5157^c
 Glutarimide, α -cyano-8 phenyl, 3633^c
 Phenol, *p*, *p*-azobis 1503^a
 Pyridine, 2-*o*-nitrobenzyl and HCl 5675^a
 Xenylam na, 4 nitro-, 4252^c
 C₁₂H₁₁N₂O₅ Benzidine sulfone 4254^a
 C₁₂H₁₁N₂O₆ Anthine nitrophenoxyl 1816^a, 2703^a
 Glycine (quinoxalinecarboxyl), 3000^a
 Pyridine 2 benzoyloxy 3-nitro- 953^a
 2(1) Pyridone 1 benzyl 5-nitro- 953^a
 O₁₂H₁₁N₂O₃ Deneceusulfone ac d *p* phenylazo
 and salts, 267^a *vs* salt 532^a
 Oxalic acid *N* benzyl 2 thio- 3373^a
 C₁₂H₁₁N₂O₄ 1(2) Pyrimidineacetate acid 3 6 di
 hydro 2 4 diketate 4 phenyl 516^a
 C₁₂H₁₁N₂O₅ Benzene sulfone acid *p* (*p* hydroxy
 phenylazo) *vs* salt 1503^a
 C₁₂H₁₁N₂O₆ Sulfonic acid *N* (*p* nitrophenyl)
 salt, 1803^a
 C₁₂H₁₁N₂O₇ 2 Isoindolinonecarboxylic acid 1 3-diketo-
 4 and 5 nitro- Cl ester 332^a
 C₁₂H₁₁N₂O₈ Benzene sulfone acid 3 nitro 4 4
 iminol, di *vs* salt 1503^a
 C₁₂H₁₁N₂O₉ 1,3 6 Carbazotetrakisulfone acid,
 8 amino-, P 716^a
 C₁₂H₁₁N₂Zr Zirconium d phenyldinitrogen
 2930^a
 C₁₂H₁₁N₃ Phenazine 2 3-diamino, 3343^c
 Pyridine 2,3 5 quinoxaline 5(10)-one hydrazone
 3851^a
 C₁₂H₁₁N₃O Pyridine 2 3 5 quinoxaline 5(10)-one di
 amino, and di HCl 3651^c
 C₁₂H₁₁N₃O₂ Malononitrile (4-dimethylamino-3
 nitrobenzyl) 1509^a
 C₁₂H₁₁N₃O₃ Anthine picrate 2992^a
 3-Picoline *p*-cate 3545^c
 C₁₂H₁₁O (See also Phenyl ether)
 Acenaphtheneol, P 2151^a 3985^a
 2 Acetonaphthene 944^a
 Ether 1 and 2 naphthyl vinyl P 302^a
 Phenol phenyl, 503^c P 1264^c 2712^a 5097^a, 5248^a
 C₁₂H₁₁O₂ Phenyl mercaptan *p*-phenoxy 1816^a
 Phenyl carboxylate 2615^a, 5063^a 5630^a
 C₁₂H₁₁O₃ Stannane diphenyl oxide 3970^a
 C₁₂H₁₁O₄ 3,4 Acenaphthenediol, P 2154^c
 3,7(2) Acenaphthenedione 1 8a dihydro-
 1832^c
 Biphenol, 502^a, 503^a, 5097^a
 1 Naphthoic acid 4 methyl P 603^c
 1,4 Naphthoquinone 2,5-dimethyl 685^a
 Phenol, phenoxy, 503^a 1615^a, 5408^a
 Pyrene, methylphenyl, 2145^a, 2352^c
 C₁₂H₁₁O₅ 1 Acenaphthene sulfonic acid, 5419^a
 2 Naphthol, 1 mercapto- acetate 3330^a
 Phenol, *p* *p* thiolate, 5107^a
 Phenyl sulfone 5063^a, 5830^a
 C₁₂H₁₁O₆ 2,4, 5-Biphenyltriol 281^c
 Ketone 2 furyl α -hydroxybenzyl, 4876^a
 2 Naphthoic acid, methoxy, 945^a 1518^a,
 2138^a, 3654^a
 Phenol *p*, *p*-oxybis 1816^a
 C₁₂H₁₁O₆ 1 Acenaphthene sulfonic acid and
vs salt 5419^a
 Acetic acid (2 hydroxy 1 naphthylmer-
 capto), 3330^a
 Benzene sulfonic acid *p* phenoxy 1816^a
 Benzene sulfonic acid *o* phenyl 4872^a
 Phenyl sulfite 1797^c 3982^c
 C₁₂H₁₁O₇ (See also Quinhydrone)
 Glutaric anhydride *p* *p* amyl 4852^c
 Lactic acid 4657^a
 C₁₂H₁₁O₈ 3 Benzene sulfonic acid *p* phenyl
 1816^a
 Resorcinol thioic 5407^a
 C₁₂H₁₁O₉ Chromone 3 acetyl 7 8-dihydroxy 2
 methyl 5671^a
 Compd m 226^a, from compd m 127^a,
 4240^a
 Compd, m 274^a from compd m 131^a
 4250^a
 C₁₂H₁₁O₁₀ 1 2 Thioacaphthene dicarboxylic acid
 5-ethoxy 5165^a
 C₁₂H₁₁O₁₁ 2 1 Benzopyran 3-carboxylic acid 1
 keto-7 8-dimethoxy 5898^a
 C₁₂H₁₁O₁₂ 2 *o* *o* Benzene sulfonic acid 99^a
 C₁₂H₁₁S (See also Phenyl sulfide)
 1 Acenaphthene mercaptan 5419^a
 C₁₂H₁₁S₂ Phenyl disulfide 2128^a
 C₁₂H₁₁S₃ Phenyl selenide 2611^c
 C₁₂H₁₁Te Phenyl telluride 2611^a
 C₁₂H₁₁AsN₂O Benzeneazone acid *p* (2,4-di-
 hydroxyphenylazo) 927^a 4937^a
 C₁₂H₁₁AsO Benzeneazone acid *o*-phenoxy
 4943^a
 C₁₂H₁₁BrN₂O₂ Acenaphthene disulfonamide
 bromo- 1513^a
 C₁₂H₁₁BrN₂O Acetonitrile α -*o*-dibromo- α -(2 4 6-
 trimethylbenzoyl), 2085^a
 C₁₂H₁₁BrN₂ Isopyrrole 3 4 5-trimethyl 2 (3 4 6-
 trimethyl-2 pyrryl)methylene) H 2^a
 4281^a
 C₁₂H₁₁ClN₂ *p* Phenylendiamine *N* (*p* chloro-
 phenyl), P 1262^a
 C₁₂H₁₁ClN₂O Pyridine 2 acetamido 3-amino-3
 (6-chloro-3 pyridylazo) P 4892^a
 O₁₂H₁₁ClO₂ Iserule acid, 6-chloro-, acetate
 94^a
 C₁₂H₁₁ClNO Acetonitrile, α , α -dichloro- α -(2 4 6-
 trimethylbenzoyl), 2085^a
 C₁₂H₁₁ClO₂ Ketone 5,6,7 8-tetrahydro-1 and
 2 naphthyl trichloromethyl, 933^a
 C₁₂H₁₁Br NO Indole 2 3 bis(acetoxymethyl),
 700^a
 C₁₂H₁₁MoNO₂ + H₂O 5639^a
 C₁₂H₁₁N (See also Diphenylamine)
 Acenaphtheneamine, 1518^a, 3985^a
 C₁₂H₁₁NO Acetamide *N* naphthyl, 2690^a
 2 Acetonaphthene oxime 941^a
 Amine, *p* phenoxy 1816^a
 Hydroxylamine, 8 *p* *p* phenyl, 4248^c
 Ketone, 2 furyl α -hydroxybenzyl, oxime,
 4876^a
 Phenol, α -(*p* amidephenyl), 2712^a
 2 Pyridol, 6 methyl 4 phenyl, 2143^a
 C₁₂H₁₁NO₂ 1 Acetonaphthene, 2 hydroxy,
 oxime, 3590^a
 Diamine, 1559^a
 2 Formaldehyde, 5-benzyl, oxime, 1245^a
 1 Naphthalene carboxylic acid, Me ester,
 4976^a
 2 Naphthamide, 3 methoxy, 2138^a

- 3-Parrolo 1 acetyl 5 phenyl 1827²
 C₁₂H₉NO₂S 2 Thiazolecarboxylic acid 4-phenyl acetate 2722²
 C₁₂H₉NO₂S Cnechomane acid ethoxy, 5245¹
 and salt 954
 Cnechomane acid 6 hydroxy Et ester 954¹
 1 Naphthoic acid 8-amino-5-methoxy P 963²
 Pyruvic acid cyanophenyl Et ester 2133²
 Quinac acid Me ester 953²
 C₁₂H₉NO₂S Benzenesulfonamide p phenoyl 1816²
 Benzenesulfonic acid amine- 5169²
 Sulfonic acid N phenyl and 25g salt 1003²
 C₁₂H₉NO₂S Rhodamine 3 homopiperonyl 4241²
 C₁₂H₉NO₂S Oxazoline 4 5-epoxy 4 5-dimethyl 2 3 4 methylenediosphenyl 294²
 C₁₂H₉NO₂S Benzenesulfonic acid p p amine bis Me salt 1503²
 C₁₂H₉N₂NaO₂ See sodium phenobarbital
 C₁₂H₉N₂ Aniline p phenylazo- 4244² *See* sulfate 1510²
 Melonitrile (p dimethylammonobenzal) 1003²
 Trisene 1 3 diphenyl 503² 1226² 4244²
 C₁₂H₉N₂O₂ Cinchon namide N (carbamyl methyl) 3000²
 2 Naphthaldehyde 3 hydroxy semicarbazone 2146²
 Pyridine 2 4 amino 2 nitrobenzyl 567²
 Quinadamide 4 carbamylmethyl 3000²
 C₁₂H₉N₂O₂ Acetonitrile (2 4 6-trimethyl-3 5-dinitrobenzyl) 2855²
 C₁₂H₉N₂O₂ Naphthalene dimethyl 5096²
 Naphthalene ethyl 944 451² 516²
 C₁₂H₉N₂O₂ o-Arsamic acid N (p hydroxy phenyl), 103²
 C₁₂H₉N₂O₂S Benzenesulfonic acid p-(phenyl sulfamyl) 93²
 C₁₂H₉N₂O₂S Benzenesulfonic acid p 4 amino-2 hydroxyphenylazo 493²
 C₁₂H₉N₂O₂ See *Asiphenomane*
 C₁₂H₉N₂O₂S Benzenesulfonic acid o o dithiolus- 1225²
 C₁₂H₉N₂O₂S Benzenesulfonic acid mercapto (sulfomethylammonopyridylammonia) An deriv of Na salt P 960²
 C₁₂H₉N₂O₂ Butyric acid p 4 dibromo-α keto-γ phenyl Et ester 4551²
 C₁₂H₉ClN₂ Quinoline 4-chloro-2-ethyl-3 methyl 2430²
 C₁₂H₉ClN₂S Thionine methyl chloride 4575²
 C₁₂H₉ClN₂ Quinadine 3 4-dichloro-α-dimethyl amino- 2430²
 C₁₂H₉ClO₂ Adipylchloride p phenyl 5181²
 C₁₂H₉ClN₂ 1,4-hydroquinone p trichloro-α- (5 6 7-tetrahydro-3 and 2 naphthyl) 935²
 C₁₂H₉CuN₂O₂ + 11H₂O D pyridinocupric hemate hydrate 652²
 C₁₂H₉INO₂ 5-Acetyl 8-hydroxy 1 methylquinolone *See* *acetic acid* 386²
 C₁₂H₉MgN₂ Magnesium diamide 3950²
 C₁₂H₉N₂ See also *Ben* *See* *Harmaline*)
 1 6 Acetylthionine bromine and sulfate, 3985²
 o p Harmane 2714²
 Hydrazobenzene 1149² 2699²
 p-Hydroxyaniline N phenyl 503²
 Pyridine 2 4-amino-2-nitro, and di HCl, 1003²
- C₁₂H₉N₂O Acetamide, N (5-amino-1 naphthyl), 413²
 Acetyl 4-β-hydroxy 1(2)-one, 3,4,5,10-tetrahydro-, 514²
 o-Phenylenediamine, 4 phenoyl, 1816²
 C₁₂H₉N₂O₂S Thioyanic acid, α-p-aminyl propylene ester, P 1258²
 C₁₂H₉N₂O₂ Carbostyryl, 6-acetamido-4-methyl 296²
 2 Naphthoic acid, 3 methoxy, hydrazide, 2138²
 1 Naphthylamine, γ ethyl 2 nitro-, 2715²
 4 Pyrazolecarboxylic acid, methylphenyl, Me ester, 3631²
 8-Quinolol, 7-acetamido-α-methyl, and sulfate, 954²
 Uracil, 1 3-dimethyl 6-phenyl, 816²
 C₁₂H₉N₂O₂S Butyramide, γ phthalimidothio-, 2722²
 Hydantoin 1 acetyl 5-benzyl 2 thio-, 1508²
 C₁₂H₉N₂O₂ (See also *Phenobarbital*)
 Barbitone acid, 1 5-dimethyl-5-phenyl, P 2738²
 4-Quinolacetic acid, 6-hydroxy, Et ester 954²
 C₁₂H₉N₂O₂ 3 Hydantoinacetic acid, benzyl ester, 4278²
 3-Hydantoinacetic acid α methyl 3 phenyl, 4527²
 1(2) Pyrimidineacetic acid, 3,4,5,6-tetrahydro-2 6-diketo-4 phenyl, 516²
 C₁₂H₉N₂O₂S Benzenesulfonamide, p p' oxybis-, 1816²
 C₁₂H₉N₂O₂S p p' Bibenzenesulfonic acid, 3,3 diamino-, 4571²
 C₁₂H₉N₂ Chlorosidine 1010²
 C₁₂H₉N₂O₂ Glyoxylic acid, cyan-, Et ester, methylm nitrophenyl) b) drazone, 917²
 1 Iodanacetic acid, 2 3-diketo-, oxime semicarbazone 5162²
 Propionic acid, α cyano α (m-nitrophenylazo), Et ester, 917²
 C₁₂H₉N₂O₂S Lysazole 1 (2 4 dinitrophenyl) - 5 (ethylmercapto) 3 methyl, 1247²
 C₁₂H₉N₂O₂ Pyrazole, 1 (2,4 dinitrophenyl) - 5-ethoxy 3 methyl, 1246²
 C₁₂H₉N₂O₂S Histidine 2 mercapto-, picrate, 1247²
 C₁₂H₉O Dibenzofuran, tetrahydro-, P 4692²
 Ether ethyl naphthyl, 1797², 5009²
 — methyl 1 naphthylmethyl, P 1841²
 C₁₂H₉O Coamarine, 3,4,7 trimethyl, 4542²
 Δ² Cyclobenzene, 3-hydroxy-5 phenyl-, 3319²
 Cyclopentanone, 2 benzoyl, 213²
 2 Naphthaleneacetic acid 1,2,3 4-tetrahydro 1 hydroxy, γ lactone, P 967²
 C₁₂H₉O₂ Ciromone, 3 ethyl-7 hydroxy-2-methyl, 4251²
 Cinnamaldehyde, α ethyl 3,4 methylenedioxy, 1230², 4247²
 Crotonopropene, β hydroxy, acetate, 3394²
 1 Iodanacetic acid, 3 keto-, Me ester, 1832²
 1 3 Iodanone, 2 ethyl-4-hydroxy-7 methyl, 2715²
 Naphthaleneacetic acid, 1,2,3,4-tetrahydroketo-, P 967², 183², 3161²
 Phthalide 2 acetyl 2,6 dimethyl, 2714²
 Umbelliferone, 3 ethyl 4-methyl, 4251², 4860²
 C₁₂H₉O₂ (See also *Rotenic acid*, *Tuberc acid*)

- Δ¹ - 1 - Bulenone, 3 hydroxy - 1 - phenyl, methylcarbonate, 3631¹
- Chromone, 3 - ethyl - 5,7 - dihydroxy - 2 methyl, 4250¹
- Coumarin, 5,7 - dimethoxy - 4 - methyl, 4250¹
- , 6 ethoxy 7 methoxy, 707¹
- , 3 - ethyl - 5,7 - dihydroxy - 4 - methyl, 4250¹
- 1,3 - Indandione, 2 ethyl 4 - hydroxy 6-methoxy, 3140¹
- Isotubane acid, 103¹
- Succinic anhydride, α-methoxybenzyl, 1814¹
- C₁₂H₁₀O₂ Acrylic acid, β (2,4-dimethoxybenzoyl), 4885¹
- Glutamic acid, β-p-anisyl, 4852¹
- Succinic anhydride, (2,4-dimethoxyphenyl), 4663¹
- C₁₂H₁₀O₂ 1,1,3 Propanetricarboxylic acid, 2 phenyl, 82¹
- β Resorcyaldehyde, 5-methoxy, diacetate, 4230¹
- C₁₂H₁₀O₂ Glyoxylic acid, [2 (carboxymethyl mercapto) p phenetyl], 5165¹
- C₁₂H₁₀O₂ Acetic acid, α α (p-teronyldene-dithio)bis, 4393¹
- C₁₂H₁₀ N₂ Naphthalene, 1,5-bis(methylmercapto), 3340¹
- C₁₂H₁₀BrO₂ Succinic acid (3-bromo-2,4-dimethoxyphenyl), 4606¹
- C₁₂H₁₀Br₂N₂O₂ β - Diacetophenone, 2,6 di-bromo, 250¹ 1617¹
- C₁₂H₁₀Br₂O₂ Acetophenone, α - tribromomethyl, 5104¹
- C₁₂H₁₀Br₂O₂ Benzylalcohol, α-(tribromomethyl) butyrate, 605¹
- C₁₂H₁₀Cl₂O₂ Acetophenone, α trichloromethyl, 5104¹
- C₁₂H₁₀Cl₂O₂ Acetophenone, α trichloro - 4 hydroxy 2 (and 5) isopropyl 2 (and 2) methyl, 935¹
- C₁₂H₁₀Cl₂O₂ Amino acid, 3 - (α, β, γ trichloro ethyl), Et ester, 5412¹
- C₁₂H₁₀N₂ 2 Naphthylamine, γ, N - dimethyl, 4545¹
- Quinolone, 2 propyl, and salts, 1629¹
- C₁₂H₁₀N₂O Acetonitrile, (2,4,6 trimethyl benzoyl) 2085¹
- Lepidine, 6 ethoxy, P 2668¹
- 2 Naphthylamine, 1 ethoxy, P 302¹
- 4 Quinoline, 2 ethyl-3 methyl, 2430¹
- C₁₂H₁₀N₂O₂ 2 Naphthyl mercaptan, 1 amino - 4 ethoxy, P 1095¹
- Thiazole, 2 - (ethoxymethyl) 4 phenyl, 7224¹
- C₁₂H₁₀N₂O₂ 3-Indolebutyric acid 514¹
- Propanediol, (2-quinolyl), 5713¹
- Quinaldine, 6,7 dimethoxy, 3004¹
- 2 (1,3) Quinolinedione, 3-ethyl 1 methyl, P 1263¹
- C₁₂H₁₀N₂O₂ Rhodamine, 3 (p methoxyphenethyl), 4241¹
- C₁₂H₁₀N₂O₂ Alamine, N cladomy, 2117¹
- Cinnamaldehyde, α ethyl-3 α methylene-dioxy, oxime, 1230¹
- 3 Indolepropionic acid, 7 methoxy, 4580¹
- Δ¹ - Oxazoline 2 p - anisyl - 4,5 epoxy - 4,5-dimethyl, 204¹
- γ Peptonic acid, α benzamide, 1231¹
- Phthalide, 2 - acetyl 2,5 - dimethyl, oxime, 2714¹
- C₁₂H₁₀N₂O₂ α Tolualdehyde, α cyano-3,4,5 trimethoxy, 4541¹
- C₁₂H₁₀N₂O₂ Glycolic acid homopiperonyl dithiocarbamate, 4241¹
- C₁₂H₁₀N₂O₂ Isophthalic acid, 2 hydroxy 5 nitro-, di Et ester 5409¹, 5410¹
- Oxamic acid, 2 carboxy - 4,5 - dimethoxy, mono-Me ester, 2149¹
- C₁₂H₁₀N₂O₂Sb + H₂O Tartaric acid Sb deriv, salt with p-nitrophenylamine, 4852¹
- C₁₂H₁₀N₂ 1,2,4 Benzenetrizamine, N¹-phenyl, 108¹
- Pyridine, 2 (2,4-diaminophenyl) 5675¹
- C₁₂H₁₀N₂O₂ 2(3) - Thiazolone, 4 p - tolyl, hydrazone Ac deriv, 1532¹
- C₁₂H₁₀N₂O₂ 1,1 Cyclopentanediacetamide, α α dicyano 3 methyl, 3310¹, 4234¹
- C₁₂H₁₀N₂O₂ 1,3,4,6 - Thiodiazin 3 - ol, 2 tolone, Ac deriv, 3002¹
- C₁₂H₁₀N₂O₂ 3 Hydantoinacetamide N benzyl, 4225¹
- C₁₂H₁₀N₂O₂ Pyruvohydroxamicamide, oxima Ac deriv, 3623¹
- C₁₂H₁₀N₂O₂ Biguanide (hydroxynaphthyl), P 5041¹ and HCl, P 5294¹
- Thiazole 2 acetamido 4 amino - 6 benzyl, 969¹
- , 2 acetamido 4 amino 6 m (and p) tolyl, 955¹
- C₁₂H₁₀N₂O₂ 1 Naphthol 3 sulfonic acid, 6 (γ-guanidino) P 5290¹
- C₁₂H₁₀N₂O₂ 2 α Thiazamercaptan, 4 amino 6 propyl, picrate, 701¹
- C₁₂H₁₀ Naphthalene 2 ethyldihydro-, 4544¹
- C₁₂H₁₀Ar₂Cl₂N₂O See Arspiroamine
- C₁₂H₁₀Br₂N₂O Δ¹ 2 Butenone, 3 bromo 4 (p-dimethylamino)phenyl, 1505¹
- C₁₂H₁₀Br₂N₂O Ethyl methyl ester, m 131¹, of decarboxylic acid which slowly carbonizes above 230¹, 1529¹
- Tyrosine N (α bromopropionyl), 5412¹
- C₁₂H₁₀Br₂N₂Zn, 3925¹
- C₁₂H₁₀Br₂O₂ Guanacol, 3 - (α β - dibromopropyl), acetate, 4535¹
- C₁₂H₁₀Cl₂N₂ Indole, 3 chloro 1,3,3 tri-methyl 2 methylene, P 826¹
- C₁₂H₁₀Cl₂N₂O Crotonic acid β (p chloro-amino), Et ester, 1216¹
- Isoquinoline, 1 (chloromethyl) - 3 4 dihydro 6,7 demethoxy, HCl, 1530¹
- C₁₂H₁₀Cl₂Hg₂O Phenol, cyclohexyl, bis(chloro-mercur) deriv, 4254¹
- C₁₂H₁₀Cl₂N₂Zn, 3023¹
- C₁₂H₁₀Cl₂N₂ Carvacrol, 5 (p trichloro α isomethoxy), and HCl, 935¹
- Thymol 6 (p trichloro α isomethoxy) and HCl, 935¹
- C₁₂H₁₀I₂N₂Zn 3925¹
- C₁₂H₁₀N₂O₂Sb + H₂O Tartaric acid Sb deriv, salt with phenethylamine, 4852¹
- C₁₂H₁₀N₂ Herman 1 2 3 4 tetrahydro-, 301¹
- Isopyrrole 3,4,5 trimethyl-2 - (2 pyrrol methylene), HBr, 4250¹
- Sorbalddehyde, phenylhydrazones 5891¹
- C₁₂H₁₀N₂O₂ 3 - Pyrazolone, 1,4,5 trimethyl 2 phenyl, P 2157¹
- 2 6 Pyridazole, 1,2,3,4 tetrahydro-methoxy, 301¹
- C₁₂H₁₀N₂O₂ 1 Pyrolopropanol, 2 pyrrole carboxylate, 1826¹
- Quinolone, α amino 6 ethoxy-5-methoxy, P 5534¹
- α Tolonic acid, (α - methylacetoxy)lucene hydrate, 1821¹

- Tryptophan methyl, 2446²
 C₁₃H₁₁N₃O₃ Pyrocatechol 4 [2 (γ-amino-propyl) 4 thiazyl], and sulfate, 2722²
 C₁₃H₁₁N₃O₃ Benzoic acid, o (2 m ditha-enylidenehydrazine), Me ester 2667²
 Benzoic acid o (5 methyl 2 m ditha-enylidenehydrazine) 2697²
 C₁₃H₁₁N₃O₃ Crotonic acid β (p nitroamino), Et ester 2126²
 Spuro(hispidine 9,1 cyclopentadiene) 2 4 6 8-tetrazine, 3 methyl 4234²
 C₁₃H₁₁N₃O₃ Alanine N (m nitrobenzoyl) Et ester, 2117², 2118²
 C₁₃H₁₁N₃O₃ Penicillin 3,5 dinitrobenzoate, 5406²
 C₁₃H₁₁N₃O₃ Thiazole, 4 methyl 2 (N methyl p toluene), 4881²
 Δ Thiazolone 3 4 dimethyl 2 p tolyl amino 4881²
 C₁₃H₁₁N₃O₃ See Melodrin
 C₁₃H₁₁N₃O₃ [2 2 Bipyrrazine] 3 3 6 6 tetra methyl 2729²
 Pyrazine 2,3 dimethyl 3 (5 methyl 2 pyrazinylmethyl) 2729²
 C₁₃H₁₁N₃O₃ Pyrrazole 2 ethyl picate 2997²
 C₁₃H₁₁N₃O₃ 2(3) Thiazolone, 4 p tolyl 4 methylthiosemicarbazide 1532²
 C₁₃H₁₁N₃O₃ Pyridine 2,6 diamine 3 (ethoxy 3 pyridylazo), P 4892²
 C₁₃H₁₁N₃O₃ 2 3 Piperazineone, 5 6 bis (5-simulacrylmethyl) 5189²
 C₁₃H₁₁O₂ 2 Acetophenone 2,6 7 8 tetra hydro- 943²
 Cinnamaldehyde, m ethyl p methyl 1230²
 —, m-isopropyl 4247²
 Campd, bi 140-1 5², from HCO₂H and 3 methyl 5-phenyl penus 3 of 4557
 Cyclohexanone, 4 phenyl 5161²
 Ether, allyl phenylallyl 2122²
 — o a dimethyl 2 butyl phenyl 1815²
 1(2) Naphthalene, 3 4-dihydrodimethyl 693², 1232²
 1 Pentam 3 of 3 methyl o phenyl 4850²
 C₁₃H₁₁O₂ Δ 2 Butenol 4 phenyl, acetate 923²
 Cinnamaldehyde, m-ethylmethoxy 1230²
 4247²
 Cinnamic acid p-isopropyl, 2133²
 — m methyl, Et ester, 82²
 2 4-Pentanedione, 3-benzyl, 62²
 2 Prutane, 3 (p hydroxybenzyl) 2132²
 m-Xylene, diacetyl, P 2439²
 C₁₃H₁₁O₂ Eugenol acetate, 1632²
 Hemellitic acid, 6-acetyl, Me ester 682²
 Hydrocinnamaldehyde, m ethyl 2,4 methylenedioxy, 4247²
 Isochavicol, acetate, 4535²
 Isoeugenol, acetate, 2954²
 m Toluene acid, m acetyl, Et ester 96²
 2710²
 Valeric acid, 4-benzoyl, 2132²
 C₁₃H₁₁O₂ Adipic acid, β-phenyl, 1632², 5181²
 Cinnamic acid, 4-ethoxy 3 methoxy, 2134²
 5-m-Dioxan-2,2 phenyl, acetate 76²
 Lactic acid, Et ester benzoyl, 3311²
 Phthalic acid, di Et ester, P 18-7 3395²
 4819²
 1-Propanol, 3 - (3,4 - methylenedioxy phenyl), acetate, 4247²
 Propionic acid, β, β' - phenylenebis, and Ag salt, 930²
 Tubasic acid, dihydro, 103², 1251²
 C₁₃H₁₁O₂ 1,2,4 - Benzenetriol, 3 6 - dimethyl, acetate, 5413²
 Cinnamic acid trimethoxy-, 2134², 5405²
 Nitroic acid 103²
 Succinic acid, m methoxybenzyl-, 1819²
 Valeric acid 4 (2,4 dihydroxybenzoyl), P 2737²
 C₁₃H₁₁O₂ Succinic acid, (2,4-dimethoxyphenyl), 4863²
 C₁₃H₁₁O₂ Acetic acid, m, m' (vanillidithio)bis, 4333²
 C₁₃H₁₁O₂ Deric acid, 1510², 3339², 5595²
 C₁₃H₁₁BrN₃ Benzothiazole, 3 - bromo - 1 isobutylamino - 5 methyl-, 4881²
 C₁₃H₁₁BrO₂ Isodiol, bromo-, acetate, 4533²
 C₁₃H₁₁BrO₂ Benzene, 5 (β bromo m methoxy propyl) 1 methoxy - 2 3 - methylenedioxy, 4533²
 C₁₃H₁₁BrNO₂ 3 Pyrrazolepropionic acid, o, β - dibromo - 5 carboxy - 2,4 dimethyl, 5-Et ester, 1020²
 C₁₃H₁₁ClN₃O₂ 5 Leucine, N (4 - chloro - 2 nitrophenylmercapto), 491²
 C₁₃H₁₁ClN₃O₂ 2 Formyl - 1,3,3 - trimethyl pseudonodolum perchlorate, oxime, 2427²
 C₁₃H₁₁ClO Butyryl chloride, m methyl-γ-o-tolyl, 1232²
 Butyryl chloride, γ-(2,4-xylyl), 693²
 C₁₃H₁₁ClO₂ Acetic acid (3,4 dimethoxy-phenoxyl) chloro deriv, Et ester, 3893²
 C₁₃H₁₁N₃O₂ 4 Pyrazolol, 5 - methyl - 1 - o tolyl methiodide 3342²
 C₁₃H₁₁N₃O₂ Benzene, sodoso-, hydrate, propionate 3586²
 C₁₃H₁₁N₃ Anthracene, N, N-diallyl, 90²
 2 Naphthylamine, 3,4 dihydro - γ, N - dimethyl, 2139²
 C₁₃H₁₁NO Benzoic acid, piperidine, 3960²
 1 Butanol 4 (3 mdy) 514²
 Crotonamide, N-ethyl 459²
 C₁₃H₁₁NO₂ Δ-m-Indanacetic acid, m-cyanohexahydro 3333², 3334²
 Δ-1 Pentosol carbamate, 4526²
 4 Pyranocarboxamide, tetrahydro-, 681²
 C₁₃H₁₁NO₂ Acetoxydiol, hydroxy, acetate, 930²
 Glutaric acid β-methyl, 3623²
 Decanoic acid, benzoyl, 1231²
 m Toluene 4 ethoxy 3 5 dimethoxy P 4284²
 2,6 Xylene 4 amon di Ac deriv. 2424²
 C₁₃H₁₁NO₂ Butyric acid m benzamide γ methylenecapto-, 5399²
 C₁₃H₁₁NO₂ Glycolic acid, (p methoxy phenethyl)dithiocarbamate, 4241²
 C₁₃H₁₁NO₂ 1-Propanol 2 3 dimethoxy γ, p-nitrobenzoate 2692²
 C₁₃H₁₁NO₂ Acetic acid, (3 4 dimethoxyphenoxyl) tetra deriv, Et ester, 3893²
 C₁₃H₁₁N₃ Quinazolinic 2 amino - 5 6 dihydro 5-isopropoxy 8-methyl, 1254²
 C₁₃H₁₁N₃O₂ Cinnamaldehyde, m-ethyl, semicarbazone, 4247²
 3 Indolobutyric acid, hydrazide, 514²
 C₁₃H₁₁N₃O₂ m-Hexenaldehyde, p nitrophenyl hydrazone, 5140²

- C₁₂H₁₆N₂O₂ Ileumelut acid, 6-acetyl, semicarbazone, 683¹
 o-Toluic acid 6 acetyl, Me ester, semicarbazone, 683¹
 C₁₂H₁₆N₂O₂ Alanine, Δ [Δ (phenylcarbamyl) glycol], 2741¹
 Glycine, N (N-phenylcarbamylalanyl), 2741¹
 —, [(3-pyridylcarboxyl)glycyl], Et ester 3000¹
 Hydroxycinnamyl azide, 2,4 5-trimethoxy 5403¹
 C₁₂H₁₆N₂O₂ m-Xylene, 5 tert. butyl-2,4,6 trimethoxy, 547¹
 C₁₂H₁₆N₂O₂ Dimethylammonium, picrolonate, 70¹
 Ethylamine, picrolonate, 70¹
 C₁₂H₁₆N₂O₂ Ilesamethylacetate, picrate 4523¹
 C₁₂H₁₆N₂O₂ Cyclopropane, benzyl, 2980¹
 Naphthalene ethyl 1,2,3,4 tetrahydro, 943¹ 4544¹
 C₁₂H₁₆BrN₂O₂ Acetamide, α bromo N (3,4 dimethoxyphenethyl), 1530¹
 2 Pyrolicarboxylic acid, 5 (bromomethyl) 3 methyl-4-propionyl, Et ester 3009¹
 C₁₂H₁₆BrN₂O₂ Galactose β acetobromide-A, 921¹
 C₁₂H₁₆BrN₂O₂ Benzothiazole, 3 bromo 1 isobutylamino 5 methyl, hydrobromide, 4581¹
 C₁₂H₁₆ClN₂O₂ Acetamide, α chloro N (3,4 dimethoxyphenethyl), 1530¹
 C₁₂H₁₆ClN₂O₂ Acetamide, α chloro N (3,4 dimethoxyphenethyl), 1226¹
 C₁₂H₁₆ClN₂O₂ Tetraminocuprate picrate, 683¹
 C₁₂H₁₆ClN₂O₂ Benzene acid α (isoamylmercur mercapto), 1821¹, 4907¹
 C₁₂H₁₆ClN₂O₂ Phenyl, cyclohexyl, bis(hydroxy mercapto) deriv., 424¹
 C₁₂H₁₆INO₂ Iodomethyltrimethylammonium acid phthalate P 2814¹
 C₁₂H₁₆Ne Benzimidazole, 2 amyl, 1800¹
 Benzimidazole, 3 β -methylbutyl 1800¹
 2 Iodacetamide, 2 cyanobenzaldehyde 3333¹
 β Matmidine, 5429¹
 Pyridine, 3 (1 allyl 2 pyrrolidyl) end salt 300¹
 Sorbaldehyde amine 683¹
 C₁₂H₁₆N₂O₂ Δ^1 Indanacetamide α cyano 2a 4,5,6,7,7a-hexahydro, 3333¹ 3334¹
 Piperidine, 2 benzyl-1 nitroso-, 5429¹
 C₁₂H₁₆N₂O₂ 2 Butanone oxime, methylcarbamate 1500¹
 Cyclopentanecarboxylic acid α , 1 dicyano 3 methyl, Et ester 4234¹
 Homolevulinic acid phenylhydrazine 4547¹
 Levulinic acid, Me ester, phenylhydrazine 496¹
 Pentanone, oxime, carbamate 1500¹
 C₁₂H₁₆N₂O₂ Carbamic acid β acetamide-, iso propyl ester 5404¹ Pr ester 5404¹
 Phasodorn, 1289¹, 4626¹
 C₁₂H₁₆N₂O₂ Allophanic acid, γ -P phenethyl Et ester, 936¹
 Carbamic acid, β nitro-, Am ester, 2686¹ isoamyl ester, 2686¹
 C₁₂H₁₆N₂O₂ Anisole, 4-tert butyl-3 methyl 2,6-dinitro- 5408¹
 C₁₂H₁₆N₂O₂ Benzothiazole, 1-butylamino 3 methyl, 4581¹
 Benzothiazole, 1 isobutylaminomethyl 4581¹
 C₁₂H₁₆N₂O₂ Spiro[bupidine 9,1' cyclopentane] 2,6-dione, 4,8 dinitro-3-methyl 4234¹
 C₁₂H₁₆N₂O₂ Carbamic acid [α (4 phenyl 3 thioscarbamido)ethylidene], Li ester, 3633¹
 C₁₂H₁₆N₂O₂ Theobromine, 1 (β hydroxy propyl), acetate, 1031¹
 C₁₂H₁₆N₂O₂ Theophylline arabinoxide 5664¹
 C₁₂H₁₆N₂O₂ 1,3 Butanedione 1 phenyl disemicarbazone, 3632¹
 C₁₂H₁₆N₂O₂ Histidine N-benzyl, 5780¹
 C₁₂H₁₆N₂O₂ 1,2 Butanedione, 1 (2,4 dihydroxyphenyl), disemicarbazone 1510¹
 C₁₂H₁₆O₂ 2 Butanone, 3 methyl 4 o tolyl 4544¹
 Compd, b: 123-4 5° from reduction of of compd ba 140-1 5°, 4857¹
 o-Cresol 6 allyl-4-ethyl 930¹
 Ether α -ethyl Δ^1 butenyl phenyl 2982¹
 —, methyl 5 6 7 8 tetrahydro 2 naphthylmethyl P 2733¹
 —, γ phenylallyl propyl 2132¹
 3 Hexanone phenyl 4857¹
 Pentanone methylphenyl 455¹
 Phenol, α (α methyl Δ^1 pentenyl) 2082¹
 C₁₂H₁₆O₂ Acetophenone 2 hydroxy 3 methyl o propyl 929¹ 930¹
 Benzene 4 β methylbutyl 1,2 methylene dioxy 424¹
 2 Butanone 4 β amyl 3 methyl 601¹
 Butyric acid 2 β xylol ester 929¹
 —, α methyl- γ -tolyl 1232¹
 —, γ (2,4 xylol) 693¹
 Butyrophenone 4 hydroxy 3 o di methyl, 929¹
 Caproic acid, α -phenyl 2125¹
 Caprophenone hydroxy 1228¹
 o-Cresol, propyl acetate 929¹, 930¹
 Hydroxycinnamaldehyde α ethylmethyl 4247¹
 Hydroxycinnamic acid β isopropyl 2133¹
 —, α methyl, Et ester 4256¹
 —, trimethyl, 603¹ 5154¹
 2 Naphthalenecarboxylic acid 1 2 3 4 5 6 7 8 octahydro-1 hydroxy γ lactone P 96¹
 2 Pentanone 3 β amyl 691¹
 Phenol α (cyclohexyloxy) 468¹
 Propionic acid, ethyl o-tolyl ester 929¹
 Propiophenone ethylhydroxymethyl, 929¹
 C₁₂H₁₆O₂ (See also Anisole)
 Acetic acid (α -butylphenoxyl) 1229¹
 —, (isopropyltoloxyl) 2953¹
 Acetophenone, 2,4-dihydroxy, 515¹
 1 Butanol, 2 piperonyl, 4247¹
 Caprophenone, 2,4-dihydroxy, 4855¹
 4 3 Cresotic acid 6 isopropyl, Me ester, 3311¹
 Hydroxycinnamic acid, β hydroxy β , 2,4 tri methyl, 693¹
 Isocaprophenone, 2,4-dihydroxy, 4855¹
 Isocetanol, methoxy, Me ether, 4866¹
 Phenol 2- (ethoxymethoxy) 4 (and 5) propenyl, 5155¹
 Suberyl acid, isoamyl ester, 3620¹
 Spiro[uran 3(2), 2 indan] - 2,5(4) dione, hexahydro-, 3333¹, 3334¹
 β Thymotic acid, Me ester, 3311¹
 C₁₂H₁₆O₂ Butyrophenone, hydroxydimethoxy, 4250¹
 Caproic acid, α - (2,4 dihydroxyphenyl), P 2737¹

- Divanic acid Et ester 3413⁴
 Ilydrocinnamic acid 4-ethoxy-3-methoxy, 2134¹
 3,4-Xylic acid 2,6-dimethoxy, Me ester, 283⁹
- C₁₂H₁₄O₂ Asaronic acid Et ester 3154⁷
 Benzoic acid 3(and 4) ethoxy 4(and 3) (ethoxymethoxy) 5156⁴
 1,2 Cyclohexanedicarboxylic anhydride 3 (carboxymethyl) 2,4 dimethyl, 3653¹
 1,2,3 Cyclohexanetricarboxylic acid, 2,4 dimethyl, anhydride Me ester 3658¹
 Hydrocinnamic acid trimethoxy, 2134¹, 540³
- C₁₂H₁₄O₂ Glucoside, β phenyl 1232¹ 5147²
 C₁₂H₁₄O (See also Arhans)
 Glucal triacetyl, 506¹ 5147²
 Mannal triacetyl, 5147²
 C₁₂H₁₄O₂ Amylosan triacetyl 1496¹
 Levoglucosan triacetyl 4525¹
 C₁₂H₁₄O₂ Glucosone triacetyl 559³
 C₁₂H₁₄AsN₂O₂ Arsanilic acid N (β dimethyl carboxylpropionyl) and Na salt 2703¹
 Arsanilic acid V (β ethylcarbamylpropionyl) and Na salt 2703¹
 — N (propylcarbamylazetyl) , and Na salt 540³
- C₁₂H₁₄Br = Xylene, 4 tr bromo α methyl propyl 633¹
 C₁₂H₁₄BrO₂ Veratrole 4 (β bromo α methoxypropyl) 4533¹
 C₁₂H₁₄BrO Rhamnose, acetobromo 1604¹
 C₁₂H₁₄BrO, β Glucose, 1 bromo 2,3,4-triacetyl 4525¹
 C₁₂H₁₄BrN₂ Benzothiazole, 1-isobutylamino-5-methyl hydrotinbromide 4681¹
 C₁₂H₁₄BrN₂ Benzothiazole, 1 butylamino 3 methyl, hydrohexabromide, 4681¹
 Benzothiazole, 1 isobutylamino 3 methyl, hydrohexabromide, 4681¹
 C₁₂H₁₄ClO, β Glucose 1 α chloro 2,3,4-triacetyl, 4523¹
 C₁₂H₁₄ClS Sulfide, 1 chlorohexyl phenyl, 5395¹
 C₁₂H₁₄FO₂ Fructose, 2 fluorotriacetyl, 4232¹
 C₁₂H₁₄ImO Pyridone, 3 (1 acetyl 2 pyrrolidyl) methiodide 200¹
- C₁₂H₁₄N Cyclohexylamine N phenyl P 3133¹
 Δ^1 - Indanacetamide, hexahydro α methyl, 3333¹ 3334¹
 Piperidine, 1 benzyl 3345¹
 Quasoline, 2-ethyl 1,2,3,4 tetrahydro 3 methyl, and HCl, 2430¹, 2431¹
 Xcylamine, 1,2,3,4,5,6 hexahydro-P 712¹
- C₁₂H₁₄NO Acetamide, 2,3,4,5-tetramethyl, 4533¹
 2-Butanone, 3 dimethylamino 6-phenyl, 91¹
 Butylamide, γ (2,4-aryl), 693¹
 3-Ilexamine, 1 phenyl, oxime 4657¹
 Hydrocinnamamide, β -isopropyl, 2133¹
 Indanamine, methoxy - V V dimethyl -, 2139¹
 2-Naphthol, 3 - dimethylamino - 1,2,3,4-tetrahydro-, 1813¹
 2-Naphthylamine, 1,2,3,4 tetrahydro 1 methoxy - N methyl, and-HCl 2139¹
 Oxime b 159-162¹, of compd b 123-4 5¹, 455¹
 Propanone, methylphenyl, oxime, 4657¹
 C₁₂H₁₄NO₂ 2-Butanone, 4- β -amyl 3 methyl, oxime, 691¹
- Δ^1 - Cyclopenteneacetic acid, α -cyanodimethyl, Et ester, 4234¹
 2-Pentanone, 3 β amyl, oxime, 691¹
 Spiro[indan - 2,3' - pyrradine] - 2,5 dione, hexahydro-, 3333¹, 3334¹
- C₁₂H₁₄NO₂ Acetophenone, α - dimethylamino 3,4-dihydroxy-, 2200¹
 Carbamate acid, (β - methoxyphenethyl) , Et ester, 5405¹
 Hydrocinnamamide, 4-ethoxy-3-methoxy-, 2134¹
 2-Pyrrolecarboxylic acid, 3,5 dimethyl 4 propionyl Et ester, 3009¹
 —, 4 formyl 5-methyl-3-propyl, Et ester, 3010¹
 Tyrosine propyl ester, and HCl, 2742¹
- C₁₂H₁₄NO₂ Benzene, 1 nitro-2,4-dipropyl, 5669¹
 Ephedrine, 3-methoxy 4,5 methylenedioxy and HCl, 4,35¹
 Glutamic acid, cyanodimethyl-, di-1,1 ester 2095¹
 —, α cyano α ethyl, di-Et ester, 2096¹
 Homopropionyl alcohol, 5-methoxy α -methyl β methylamino-, and salt, 4533¹
 Hydrocinnamamide, trimethoxy, 2134¹, 540³
 2-Pyrrolecarboxylic acid, 5 methyl 3 propyl, 2 Et ester, 3010¹
 3-Pyrrolepropionic acid, 5-carboxy 2,4 dimethyl, di Me ester, 559³
- C₁₂H₁₄NO₂ Isocoumarin, N phenylsulfonyl, 2411¹
 C₁₂H₁₄NO₂ Alkanone (2,4,5 trimethoxyphenyl) -, 2965¹, 540³
- C₁₂H₁₄N₂ Methano[5,5]quinoxaline, 2-amino 5,6,7,8 tetrahydro-8,9,9-trimethyl 1254¹
- C₁₂H₁₄N₂O₂ Butanone, 4- β -amyl-, semi-carbazone, 691¹
- C₁₂H₁₄N₂O₂ Spiro(cyclopentane 1,4' - piperidine) 3,5-dicarboxamide, 2,6'-diketo-3-methyl, 3319¹, 4234¹
- C₁₂H₁₄N₂O₂ 2-Pyrrolecarboxylic acid, 3,5 dimethyl-4 (β nitrovinyl) , compd with MeNO₂, 952¹
- C₁₂H₁₄N₂O₂ Malonic acid, [ω - (tetrahydro 2,5 diketone 1 imidazonyl)acetamide] , di Et ester, 4225¹
- C₁₂H₁₄N₂S 2-Butanone, thio 4- β -tolyl-semicarbazone, 1223¹
- C₁₂H₁₄N₂O₂ Bauria 1-allyl-2-thio 6-o-toluene-, 3634¹
- C₁₂H₁₄ Benzene, hexamethyl-, 1134¹, 1501¹, 550³
 Compd, b 212-6¹, from brown-coal tar oil, 3463¹
 Hexane, 1 phenyl, 3469¹, 5323¹
 C₁₂H₁₄AlClO₂, 5661¹
 C₁₂H₁₄AsN₂O₂ Arsanic dicytose[1(3-amino 4 hydroxyphenyl)], 740¹
 C₁₂H₁₄BrN Phetethylamine, β -bromo- Δ , N-dimethyl-, P 21,3¹
 C₁₂H₁₄BrNO₂ 2-Pyrrolecarboxylic acid, 5-(bromomethyl)methylpropyl, Et ester, 3009¹, 3010¹
 C₁₂H₁₄BrNO₂ Benzocyclohexanone, β -bromo N-ethyl-, 2704¹
 C₁₂H₁₄BrN₂O₂ Histidine, N- α -bromoisovaleryl, methyl ester, 5150¹

- C₁₂H₁₇ClNO Acetoxybenzylidimethylammonium chlorid, 91¹
- C₁₂H₁₇INO₂ Iodomethyltrimethylammonium mandelate, P 2814¹
- C₁₂H₁₇N₃ Quinaldine, α - dimethylamino - 1,2,3,4-tetrahydro-, 2430¹
- C₁₂H₁₇N₃O₃ Urea, (3-camphorylidenemethyl)thio-, 1234¹
- C₁₂H₁₇N₃O₂ Miotose, 4625¹
- C₁₂H₁₇N₃O₂ Hydrazine, 2 *p*-cymyl, oxalate, 122¹
- Hydrocrotonic acid, 2,4,5 trimethoxy, hydrate, 5403¹
- Spiro[cyclobutane - 1,5 (4') - pyrimidine] 2,4,6 (1,3) trioxo 3 amony, 2979¹
- Urea, (isomethoxyphenethyl), 5403¹
- C₁₂H₁₇N₃S Urea, α - isobutylidene β *p* tolyl, 4881¹
- C₁₂H₁₇N₃O₂ Hydantoin, 3 [(4,5 dihydro - 5 isopropyl - 3 methyl - 1 pyrazolylcarboxyl)methyl], 4228¹
- C₁₂H₁₇N₃O₂ Dipropylamine, picrate, 701, 354¹
- Heptylamine, picrate, 701
- Triethylamine, picrate, 701, 2629¹
- C₁₂H₁₇N₃O₂ Dipropylamine, aliphamate, 701
- Heptylamine aliphamate, 701
- Triethylamine, atypheate, 701
- C₁₂H₁₇O Anisole, 4 *tert* butyl - 3 - methyl, 5403¹
- Anisole (5 methylbutyl), 4447¹
- Butanol, 3 methyl 4 *p* tolyl, 4544¹
- , 3 (2,4-xylyl), 603¹
- Cresol, amyl, P 133¹
- , ethylpropyl, 929¹
- Ether, α methylbutyl (α and β) tolyl, 931¹
- Δ^1 - Fenchoneacetaldehyde, 4436¹
- Fenchyl alcohol, 2 ethoxy, 4836¹
- Phenol, hexyl, 1270¹
- 2 Propenoic acid, 1 (hexahydro 2 (indanylidene)-), 3330¹
- 2,6-Xylenol, 4 butyl, 929¹
- C₁₂H₁₇O₂ 1-H-xanol, 6 phenylmercaptan-, 5391¹
- C₁₂H₁₇O₂ (See also Resorcinol, Acetyl-)
- 1 Butanol 2 methoxybenzyl 4247¹
- 2 - Heptanone 4 (2 furyl) 6 methyl, 3424¹
- Menthene 3 - acetic acid 4 lactone, 4228¹
- Phenol *m*(hexyloxy) 5408¹
- Resorcinol 4 isobutyl, 436¹
- s* - Sp rohendecane - 2,4 - diene, 7 (and 8) methyl, 280¹
- C₁₂H₁₇O₂ Anisaldehyde, di Et acetal 922¹
- 1798¹
- C₁₂H₁₇O₂ Camphorean β acrylic acid, α carboxy 2990¹
- 2 Indanacetic acid 2 carboxyhexahydro-3331¹, 3334¹
- 2 Indanmalonic acid hexahydro-, 3333¹
- Resorcinolcarboxylic acid propylidhydro-Et ester, 5413¹
- C₁₂H₁₇O₂ 1,2 Cyclopentanedicarboxylic acid 3 keto-1 methyl, di Et ester 4330¹
- Malonic acid (α - keto - α methyl Δ^1 - benzyl) di Me ester, 5663¹
- , (γ - keto - α - isopropylbutyl), di - Me ester 5663¹
- C₁₂H₁₇O₂ 1,2 - Cyclohexanedicarboxylic acid 3 - (carboxymethyl) - 2,4 dimethyl, 365¹
- 1,2,3 Cyclohexanetricarboxylic acid 2,4 - dimethyl mono-Me ester, 300¹, 385¹
- C₁₂H₁₇O₂ Mannosyl, triacetylhydrazide-, 5147¹
- C₁₂H₁₇O₂ Riboside, triacetylhydrazide-, 4229¹
- C₁₂H₁₇O₂ + Glucosone triacetyl, hydrate, 589¹
- C₁₂H₁₇ClO₂ 3 *p* Menthylacetic acid, chlorohydroxy, lactone, 4228¹
- C₁₂H₁₇N₂O₂ α -Hydroxybenzyltrimethylammonium iodide methylurethan, 4625¹
- C₁₂H₁₇N₂ Amine, *N* γ -diisopropyl 1797¹
- Phenethylamine, β γ -diethyl P 213¹
- C₁₂H₁₇NO Benzyl alcohol *p* dimethylamino α isopropyl 1236¹
- Ethanol, 2 [methyl(γ - phenylpropyl) amino], 2709¹
- Phenethylamine β methoxy *N*, *N* α trimethyl 1814¹
- C₁₂H₁₇NO₂ Benzyl alcohol, α - (β ethoxy α methylaminoethyl), and HCl 2133¹
- Phenethylamine, β methoxy α (methoxy methyl) γ methyl, 2133¹
- 2 Pyroglutamic acid dimethylpropyl Et ester 3009¹, 3010¹
- C₁₂H₁₇NO₂ Mesitylsulfonamide γ propyl, 2701¹
- β Toluene sulfonamide *N* amyl 2701¹
- C₁₂H₁₇NO₂ β Phedrine 3,4-dimethoxy 4375¹
- Me ethers, α 60-2¹ and 90-7¹ of bases from isochavicol acetal and HCl 4539¹
- Phenethylamine 4 ethoxy-3,5 dimethoxy, HCl, P 4284¹
- 2 Pyroglutamic acid 4 alhyl 5 (methoxymethyl) 3 methyl, Et ester 4009¹
- Quinolone 2 carboxylic acid octahydro 1 keto - Et ester 300¹
- C₁₂H₁₇NO₂ Glutamic acid α cyano β γ dimethyl di Et ester 1803¹
- C₁₂H₁₇NO₂ 3,5 Epiperidinedicarboxylic acid 4 keto 1,2,6 trimethyl di Me ester, P 1037¹
- C₁₂H₁₇NO₂ + H₂O Chondridin 3661¹
- C₁₂H₁₇N₂ Quinaldine, 2 amino 5,6,7,8 tetrahydro 8 isopropyl 5 methyl 1254¹
- C₁₂H₁₇N₂O₂ 2 - Heptanone, 4 (2 furyl) semicarbazone 5424¹
- 2 Hexanone, 4 - (2 furyl) - 5 methyl semicarbazone, 5424¹
- C₁₂H₁₇N₂O₂ Glutamic acid, β (β , β - dihydroxy α α dimethylpropyl) - β - methyl, cyclic dialactone, semicarbazone, 3983¹
- C₁₂H₁₇N₂P Phosphoric diethyl 2,5 - xylyl, and compd with H₂Cl₂ 2702¹
- C₁₂H₁₇ Compd, b 195-7¹, from brown coal tar oil 2463¹
- C₁₂H₁₇BrNO₂ β Bromoethyltrimethylammonium *p* toluenesulfonate, P 2814¹
- C₁₂H₁₇BrN₂O₂ Lysoze, *N*¹⁰, *N*¹¹ bis(α bromopropionyl) 2974¹
- C₁₂H₁₇BrO₂ Suberic acid, α β -dibromo- α , β dimethyl di Me ester 919¹
- C₁₂H₁₇CuN₂Ni₂O₂ Oxamide, *N*, *N'*-diethyl-, Na Cu deriv 498¹
- C₁₂H₁₇NO₂ Truethylphenylammonium di mercuripentoxide, 689¹
- C₁₂H₁₇NO₂ γ -Methoxypropyldimethylphenyl ammonium iodide, 1814¹
- (α) Methoxy 2,4 xylyltrimethylammonium iodide 1814¹
- C₁₂H₁₇N₂ Ethylureadimane, *N*, *N* - diethyl *N* - phenyl P 243¹
- Pineloutrile, α -amyl, 684¹
- Spiro[cyclohexane - 1,3 (3 a) - indazole], 4,5,6,7 tetrahydro-, 102¹
- C₁₂H₁₇N₂O₂ 2 - Butanol, 1 - dimethylamine - 2 -

- methy] 2 pyrrolicarboxylate, HCl 1826¹
- CuH₂₀ 4 [α β bis(methylamino)propyl and H₂SO₄ 4538¹
- Hydrazine 2 *o*-cymyl acetate, 1227⁸
- Pipicollic acid 1 (γ-cyanopropyl) Et ester, 3007¹
- CuH₂₀N₂O₂ Carbamic acid λ, N' adipsyl-di Et ester 3964¹
- CuH₂₀N₂O₂ Histidine, λ leucyl 5180¹
- CuH₂₀N₂O₂ Cyclopentanecarboxylic acid 3,5 diketone 1,2,2 trimethyl (P), dimeric carbazone 2990¹
- CuH₂₀O Carvomenthol 2-ethoxy 4556¹
- Δ¹ α-β Menthaneacetaldehyde 4806¹
- CuH₂₀O₂ Bornol methylanthate 4252¹
- CuH₂₀O₂ Bornol acetate compds 1234¹
- 2 Camphanecarboxyl formate 507¹
- Et ester b₁ 102.5° of acid from papeyone 919¹
- 3 Menthaneacetic acid 4 hydroxy γ lactone 4228¹
- CuH₂₀O₂ 6 Camphanecarboxylic acid hydrate Me ester 1823¹
- 3 β Menthaneacetic acid 1,6 dihydroxy lactone 4228¹
- Orthoacetate acid phenyl, Me di Et ester 2134¹
- CuH₂₀O₂ Camphocyan β propionic acid α carbonyl 2990¹
- CuH₂₀O₂ Styranol diacetate 5149¹
- CuH₂₀O₂ m Dioxane 5,5 dioxabenzol 2,2 dimethyl diacetate 1802¹
- Fructose diacetate 2122¹
- Galactose diacetate 4855¹
- CuH₂₀O₂ Cellulose 1221¹
- CuH₂₀O₂ Fructose 3 sulfonic acid α diacetone and salts 2122¹
- CuH₂₀O₂ β Amylose 1495¹
- Difructose anhydride 1223¹ 4233¹
- CuH₂₀O₂ Aldobionic acid from gum acacia 2113¹
- CuH₂₀Fb Plumbago trimethylphenyl 2688¹
- CuH₂₀Co₂ Cerium hydroacetate 5559¹
- CuH₂₀Co₂ Gadolinium hydroacetate 5856¹
- CuH₂₀La₂ Lanthanum hydroacetate, 5856¹
- CuH₂₀N₂ Cyclohexylamine N (β methyl Δ¹ pentenylidene) 1509¹
- CuH₂₀NO Acetamide V 3 carvomenthyl 1234¹
- Δ¹ α-β Menthaneacetaldehyde oxime 4856¹
- CuH₂₀NO Pelargonic acid β hydroxy Et ester, isocyanate 490¹
- CuH₂₀NO Malonic acid isovalerylammonium, di Et ester, 5395¹
- CuH₂₀N₂O Camphor, 4 methyl semicarbazone 2932¹
- β Homocamphor, semicarbazone, 2990¹
- CuH₂₀N₂O Cyclohexanepropionic acid, 3-keto-1 methyl, Me ester, semicarbazone 295¹
- Cyclopentanecarboxylic acid 3 α α dimethylacetonyl, semicarbazone 1822¹
- Semicarbazone, m 186-7° of keto acid from acryloylamine, 2986¹
- CuH₂₀N₂O Malonic acid acetyltrimethyl-di Et ester, semicarbazone 2631¹
- CuH₂₀O₂ Praseodymium hydroacetate 5857¹
- CuH₂₀O₂ Yttrium hydroacetate 5857¹
- CuH₂₀ Bicyclohexyl, 3663¹
- Cyclohexane, (cyclopentylmethyl) 2995¹
- Naphthalene, 2 ethyldecylhydro-, 4544¹
- CuH₂₀As₂O₂ Caproic acid, α, α' arsenobis-, P 2155¹
- CuH₂₀As₂Br Dicyclohexylgold bromide, 4220¹
- CuH₂₀As₂Cl Dicyclohexylgold chloride, 4220¹
- CuH₂₀Br₂NO Acetamide, α-bromo-N-3-β-methyl-, 1233¹
- CuH₂₀Br₂NO Glucosamine, N-(α bromosaccharoyl), 1503¹
- CuH₂₀CINO Acetamide, α-chloro-N-3-β-methyl-, 1233¹
- CuH₂₀N₂ α Matrocinone, dihydro-, and chloro stilate, 5430¹
- Pyrazine, 2,2,5,5 tetramethyl-2,5-di-hydro-, 4271¹
- CuH₂₀N₂O Propane 1 leucyl, Me ester, 77¹
- CuH₂₀N₂O Malonic acid, carbamidobutyl-, di Et ester, 1493¹
- CuH₂₀N₂O Alanine, alanylalanylalanyl-, 5892¹
- CuH₂₀O Ether, Δ¹-cyclohexenyl hexyl-, 922¹
- Δ¹ 5 Hendecenone, 7 methyl-, 3312¹
- Δ¹ 3-Heptenone 2,2,5,6,6 pentamethyl-, 4299¹
- 2-β-Menthaneacetaldehyde, 4806¹
- 3,4-Norbornene trimethyl-, 3312¹, 3313¹
- CuH₂₀O₂ Menthol methylisanthate, 4252¹
- CuH₂₀O₂ Compd m 142-3°, from oxidation of cadinene 3127¹
- Cyclohexanol 2 butyl-, acetate, 1608¹
- α Dodecenic acid, 5863¹
- Indocanaphthone acid, Na ester, 5830¹
- CuH₂₀O₂ Cyclohexanecarboxylic acid thiol cyclohexyl ester, 1812¹
- CuH₂₀O₂ Cyclohexyl sulfite, 1797¹, 3664¹
- CuH₂₀O₂ Malonic acid (α-methylbutyl-, di Et ester, 961¹
- Pinelic acid, α-amyl-, 584¹
- Sebacic acid mono-Et ester, 3544¹
- CuH₂₀O₂ Duroprone distillate, dimethyl-, 2069¹
- CuH₂₀O₂ Butyric acid β hydroxy α-methyl-, Et ester β hydroxy-α-methylbutyrate, 493¹
- Hexanone, dihydroxyhexanopyridylhydroxy-, 489¹
- Malonic acid, (β propoxyethyl-, di Et ester 3959¹
- CuH₂₀O₂ Galactose trimethylmonoacetate-, 4855¹
- CuH₂₀NO Styranol, glucoside-, 3317¹, 3318¹
- CuH₂₀On (See also Aldolactone Cyclobutene Glycolactone Lactose Maltose Sucrose)
- Isomaltose, 5401¹
- Mannose 4-galactonate 1221¹ 4,29¹
- , 4-glucoside-, 1221¹, 1223¹ 4,28¹
- Furanose, 4855¹
- CuH₂₀O α Lactobionic acid, Ca salt 4859¹
- Maltobionic acid Ca salt, 4859¹
- Mannonic acid, 4 β galactoside-, Ca salt, 4529¹
- 4 β glucoside-, Ca salt 4,29¹
- CaH₂₀N Lauronitrile 912¹
- CuH₂₀NO Acetamide, N-3-β-methyl-, 1233¹
- Δ¹ 3 Heptenone 2,2,5,6,6 pentamethyl-, oxime 3559¹
- 2-β-Menthaneacetaldehyde, oxime, 4856¹
- CuH₂₀NO Acetamide, α (3-β-methyl-), Δ¹-2¹
- CuH₂₀NO Caproic acid, α (α-acetamidomethyl) Et ester, 5294¹

- Pimelamic acid, amyl, 681²
 C₁H₂₅N₂O₂ Malonamide, α pargonylamino-, 5398⁴
 C₁₂H₂₁ Heptane, 2,2,6,6-tetramethyl-4-methyl-ene-, 910²
 3 - Heptene, 2,2,4,8,8 - pentamethyl 910²
 2 Pentene, 3 - *tert* butyl 2,4,4 *tri* methyl, 910²
 Trisobutylene, 5603³
 C₁₂H₂₁ Ag₂Co₂Nu₂Si₂, 1²54¹
 C₁₂H₂₁Br₂ Dodecane 1,5-dibromo- 684¹
 C₁₂H₂₁Br₂Te₂ + H₂O Tellurophene, 1,1 (1,4 - butylene)bis[1 bromo - 1,1,2,3,4,5-hexahydro-, 1521²
 C₁₂H₂₁Br₂Se₂ Selenopane dimer, bromide 1521²
 C₁₂H₂₁CoH₂N₂Si₂ 1784¹
 C₁₂H₂₁NO Lupinus Me ether, methoxide 3007²
 C₁₂H₂₁I₂Te₂ Tellurophene 1,1' (1,4 butylene) bis[1,2,3,4,5 hexahydro 1 iodide 1521²
 C₁₂H₂₁N₂ [4,4 Bicyclobenzylamine] and di-HCl 2090²
 Lupinose, ω -dimethylamino-, 3007²
 Piperidine 1,1-ethylenbis-, 4843²
 C₁₂H₂₁N₂O₂ Pimelamide, α amyl 684¹
 C₁₂H₂₁N₂O₂ Lyons, V² N² diethyl 2974²
 C₁₂H₂₁O Cyclohexanediol, dipropyl 4234²
 Pyran 2 heptyltetrahydro 684^{1,2}
 C₁₂H₂₁O₂ (See also Lauric acid)
 3 Heptenone 5 hydroxy 2,2,5,6,6,6 perfluoromethyl 3900²
 Pelargonic acid β methyl Et ester, 3627²
 C₁₂H₂₁O₂ Lauric acid α mercapto-, 582²
 C₁₂H₂₁O₂ Penicillone, 1 amoxy 5 ethoxy, 4221¹
 C₁₂H₂₁Se₂ Selenopane dimer 1521²
 C₁₂H₂₁AlO₂ Aluminodisilicic acid 5862²
 C₁₂H₂₁N Cyclohexylamine, N β methylamyl, and HCl, 1809^{1,2}
 C₁₂H₂₁NO₂ Butyric acid β (butylethylamino) Et ester, 2117²
 Caprylic acid β ethylamino Et ester, and HCl 2117²
 Lauric acid α amino- 4500²
 Undecylic acid α methylamino- 489²
 C₁₂H₂₂ Dodecane, 2040², 2067², 4222², 5890²
 C₁₂H₂₂As₂Br₂ [1,1 Bisarsenide] dimerthioether, 3000²
 C₁₂H₂₂As₂Br₂O₂ Arsenidine, 1,1-dioxybis-, dimethobromide 3000²
 C₁₂H₂₂Br₂Te₂ Tellurium di α benzyl bromide, 4484²
 C₁₂H₂₂Cl₂Te₂ Tellurium di α benzyl chloride 4484²
 C₁₂H₂₂FI₂ Tellurium di α benzyl fluoride 4484²
 C₁₂H₂₂IT₂ Tellurium di α benzyl iodide, 4484²
 C₁₂H₂₂NO₂Te₂ Tellurium di α benzyl nitrate 4481²
 C₁₂H₂₂N₂Si₂ Pseudowax, 7,7-decamethylketobis-[thio HCl, 5465²
 C₁₂H₂₂N₂O₂ Arginine (α amino β guanidinovaleryl), 1268²
 C₁₂H₂₂O Dodecyl alcohol, 1²97², 3562², 4223²
 C₁₂H₂₂O₂ 1,12 Dodecanediol 684¹
 Ethane 3-dioxaamoxy 4849²
 C₁₂H₂₂O₂ Valeraldehyde α hydroxy α propyl, di Et acetal, 2113²
 C₁₂H₂₂AlO₂ Aluminum butoxide P 523²
 C₁₂H₂₂As₂ Arsine, trisobutyl, 681²
 C₁₂H₂₂As₂Br₂ Arsine tributyl dibromide 1483²
 Arsine trisobutyl dibromide 1483²
 C₁₂H₂₂As₂Cl₂ Arsine tributyl, dichloride, 1485²
 Arsine trisobutyl, dichloride, 1485²
 C₁₂H₂₂As₂Cl₂Hg₂ Arsine, tributyl, HgCl₂ deriv., 1485²
 Arsine trisobutyl, HgCl₂ deriv., 1485²
 C₁₂H₂₂As₂Cl₂ Arsine tributyl, duodecyl 1483²
 Arsine, trisobutyl, duodecyl 1483²
 C₁₂H₂₂As₂Cl₂ Arsine tributyl, sulfide, 1483²
 C₁₂H₂₂Bi₂ Bisuthione tributyl, 2970²
 C₁₂H₂₂Br₂N₂ s Triazine, hexahydro 1,3,5 tripropyl dibromide 4523²
 C₁₂H₂₂I₂N₂ s Triazine hexahydro 1,3,5 tripropyl duodecyl 4523²
 C₁₂H₂₂N₂ Isoheptylamine, V ethyl β isopropyl 1809²
 C₁₂H₂₂NO₂ 2 Butanol 1,1 ethylamino bis (3 methyl and HCl) 2690^{2,3}
 C₁₂H₂₂N₂ s Triazine, hexahydro 1,3,5 tripropyl 4023²
 C₁₂H₂₂O₂ Butanephosphoric acid di Bu ester 2414²
 Butyl phosphate 2414²
 C₁₂H₂₂O₂P Butyl phosphate P 3014²
 C₁₂H₂₂O₂P Phosphoric acid β butoxyethyl bis (3 methoxyethyl) ester P 5170²
 Phosphoric acid tris (3 alkoxyethyl) ester P 366^{2,3}
 C₁₂H₂₂ClNO₂ Tetrapropylammonium perchlorate 2604²
 C₁₂H₂₂Cl₂O₂S₂ β β hydroxyethyl S [S (3 hydroxyethylmercapto)ethyl] S S ethylenbis (3 hydroxyethylsulfonium chloride) 2114²
 Iodoethylenbis (bis (3 hydroxyethyl)sulfonium chloride) 2114²
 C₁₂H₂₂Co₂Nu₂Si₂Zn 3925²
 C₁₂H₂₂IN Tetra propylammonium iodide 2620²
 C₁₂H₂₂N₂O₂ 3 Propanediamine N₁N₁N₁N₁ - tetraethyl 2 methoxy and chloro-Nitrate 5395²
 C₁₂H₂₂N₂ Dipropylamine V V dithiois 4504²
 C₁₂H₂₂N₂ + H₂O Polytetramethylenediamine 3617²
 C₁₂H₂₂N₂ See Synthesis
 C₁₂H₂₂Si Silicene tetrapropyl 1483²
 C₁₂H₂₂Cl₂N₂O₂ Ft Chobos glycolylchobos chloro-phosphate 3315²
 C₁₂H₂₂HgI₂Te₂ Triethylsulfonium mercaptotetra iodide 690²
 C₁₂H₂₂Br₂N₂Ni + H₂O, 1177²
 C₁₂H₂₂Be CoH₂, 1177²
 C₁₂H₂₂CH₂N₂Ni + H₂O 1177²
 C₁₂H₂₂CoH₂N₂ + 2H₂O 1177²
 C₁₂H₂₂I₂N₂Ni + 4H₂O 1177²
 C₁₂H₂₂N₂Ni₂O₂ + H₂O 1177²
 C₁₂H₂₂N₂Na₂Ni₂O₂ Oxamide N ethyl Na Ni deriv 49²
 C₁₂H₂₂SiCl₂Co₂Nu₂ 3100²
 C₁₂H₂₂Cl₂Co₂Hg₂Nu₂ 5108²
 C₁₂H₂₂NO₂W₂ + 3111₂O 469²
 C₁₂O₂ Melhite trihydroxide 9²
 C₁₂H₂₂NO₂ Benzoic acid, 2,4,6-trinitro, purify ester 4249²
 C₁₂H₂₂Br₂ClO₂ Phenol, 2,5 dibromo - 3,4,6 trichloro, bromate 4537²
 C₁₂H₂₂Br₂NO₂ 9 Fluorenone, 2,7 - dibromo-metro-, 509²
 C₁₂H₂₂NO₂ Benzoic acid, 2,4,6 trinitro, 2,4-dinitrophenyl ester, 4248²
 C₁₂H₂₂Br₂ClO₂ Phenol, 2 - bromo 3,4,6 trichloro, benzoate, 4537²
 C₁₂H₂₂Br₂NO₂ Benzanilide, 2',4,6 tribromo-dinitro-, 4568²

- C₁₂H₈Br₂N₂ Carbodamide bis(dibromophenyl), 201¹
- C₁₂H₈ClNO₃ 2 Fluorenesulfonyl chloride, 9 keto nitro- 510¹
- C₁₂H₈ClO₃ 2,7 Fluorenesulfonyl chloride 9 keto 510¹
- C₁₂H₈Cl₂N₂O Benzaldehyde, 2,4,6 trimetro, 4,6 trichlorophenylhydrazones, 5406¹
- C₁₂H₈Cl₂N₂O Benzoyl chloride nitro- 2,3,4,6-tetrachlorophenylhydrazones 5665¹
- C₁₂H₈FeK₂N₂O₂ 2384¹
- C₁₂H₈N₂O₂ Benzene acid 2,4,6-trinitro- *p* nitrophenyl ester 4245¹
- C₁₂H₈AsCl₂O 9 Fluorenone, 2 dichloro-aryl 3983¹
- C₁₂H₈Br₂O Phenol 4 bromo 2,6 diodo, benzoate 39 8¹
- C₁₂H₈BrO₃ Thioxanthene 4 bromo 1,2 dihydroxy 272¹
- C₁₂H₈BrCl Fluorene 2,7 dibromo 9 chloro, 110¹
- C₁₂H₈Br₂N₂O 9 Fluorenone amine 2,7 di bromo- sed HCl, 509¹
- C₁₂H₈Br₂N₂O Fluorene 2,7-dibromonitro- 509¹
- C₁₂H₈Br₂N₂O Benzamide 2,4,6 tribromo nitro- 458¹
- C₁₂H₈Cl₂O Phenol, 2 chloro 4,4 diodo, benzoate 39 5¹
- C₁₂H₈ClO 9 Fluorenone 2 chloro- 510¹
- C₁₂H₈Cl₂O Phenol 2,4 dichloro 6 iodo, benzoate 1,04¹
- C₁₂H₈Cl₂N₂ Benzothiazole 4 chloro 1 (o-chlorophenyl) 4265¹
- C₁₂H₈Cl₂N₂O Benzaldehyde 2,4 dinitro 2,4,6 trichlorophenylhydrazones, 5406¹
- C₁₂H₈Cl₂O Phenol, trichloro- benzoate 433¹
- C₁₂H₈ClO₃ 2,7 Fluorenesulfonyl chloride, 510¹
- C₁₂H₈Cl₂N₂O Benzaldehyde nitro- 2,3,4,6 tetrachlorophenylhydrazones 566¹
- Benzoyl chloride, nitro- 2,4,5-trichlorophenylhydrazones, 566¹
- C₁₂H₈Cl₂N₂O Carbanilic acid, 2,4 dichloro 4 chloro 2 iodophenyl ester di chloride 1,04¹
- C₁₂H₈FeK₂N₂O₂ 2384¹
- C₁₂H₈NO₃ 9 Fluorenone 4 nitro- 509¹
- C₁₂H₈NO₃ 9 Fluorenone 2,7 dihydroxy nitro- 510¹
- 2,3,4,9 *ss* Naphthazotetrazole, 1 methyl 182¹
- C₁₂H₈NO₃ 2 Fluorenesulfonic acid, 9 keto 7 nitro-, K salt 510¹
- C₁₂H₈NO Benzimidazole[2,1-b]pyrido[3,2-g]isopyrrol-3-one, 1269¹
- C₁₂H₈N₂O₃ Benzothiazole, 1 (dimetaphenylmercapto), P 966¹
- C₁₂H₈N₂O₂ Benzene acid, 2,4,6-trinitro-, Fb ester 4245¹
- C₁₂H₈AgClO₃ Xanthidol, 9 - mercapto, 5 Ag deriv. *p*-chlorate, 2413¹
- C₁₂H₈AsNO₃ 2 Fluorenesulfonic acid, 9 keto-7 nitro-, and Na salt 3983¹
- C₁₂H₈BrCl Fluorene, 2 bromo-9-chloro-, 509¹
- C₁₂H₈BrCl₂ Benzothiazole, 5-bromo-2-*p*-chloromethyl-, 104¹
- C₁₂H₈Br₂O Phenol 4-bromo 2-iodo-, benzoate, 39 5¹
- C₁₂H₈Br₂N₂O₃ Benzothiazole, 5-bromo-1-*p*-nitroamino-, 104¹
- C₁₂H₈Br₂N₂O Ether, *p*-bromobenzoyl peryl 539¹
- C₁₂H₈Br₂N₂O Benzaldehyde, bromo 3 hydroxy dinitro-, *p* - nitrophenylhydrazones, 4345¹
- C₁₂H₈Br₂N₂O Carbodamide, bis(bromophenyl), 270¹
- C₁₂H₈Br₂N₂O Benzamide, 2',6'-dibromo-4'-nitro-, 4855¹
- C₁₂H₈Br₂N₂O Benzothiazole, 1 aminodibromo-, P 965¹
- C₁₂H₈Br₂N₂O Benzaldehyde, dibromo-3-hydroxy-, *p*-nitrophenylhydrazones, 4345¹
- C₁₂H₈Br₂N₂O Benzamide, 2',4',6' tribromo-, 4865¹
- C₁₂H₈Br₂N₂O Carbanilic acid, tetrabromothio-, 2701¹
- C₁₂H₈Cl₂O Phenol, 4-chloro 2-iodo, benzoate, 1504¹
- C₁₂H₈Cl₂N₂ Benzquinoline, chloro-, 103¹, 4269¹
- C₁₂H₈Cl₂N₂O Benzoyl chloride, *p* - (*p* - nitrophenoxy), 270¹
- Nicotinic acid, 2 (2-carboxy 6-chlorophenyl), 103¹
- C₁₂H₈Cl₂N₂O 2 - Fluorenesulfonyl chloride, 7 nitro-, 510¹
- C₁₂H₈Cl₂N₂O Benzothiazole, 4 chloro-1-phenyl-, 931¹, 4265¹
- C₁₂H₈Cl₂HgO₃ Xanthene, 9-chloro-9 (chloromercapto), 2113¹
- C₁₂H₈Cl₂N₂O Carbanilic acid, 2,4 dichloro-6-iodophenyl ester, 1,04¹
- Carbanilic acid, 2,4-dichloro, iodophenyl ester, 1,04¹, 4245¹
- C₁₂H₈Cl₂N₂O Aniline, 2,5 dichloro - *N* - *m* - nitrobenzyl, 1230¹
- C₁₂H₈Cl₂O Benzophenone, dichloro-, 924¹, 4865¹
- C₁₂H₈Cl₂O₃ 2,7 Fluorenesulfonyl chloride, 510¹
- C₁₂H₈Cl₂O Phenol, 4-chloro-2-iodo, dichloride, benzoate, 1504¹
- C₁₂H₈Cl₂N₂O Anthranilic acid, *N* (3,4,5-trichlorophenyl), 2146¹
- Carbanilic acid, 2,4-dichloro, *p*-chlorophenyl ester, 1,04¹
- C₁₂H₈Cl₂N₂O Benzaldehyde, nitro-, 2,4,5-trichlorophenylhydrazones, 5667¹
- C₁₂H₈Cl₂N₂O Carbanilic acid, 2,4 dichloro-*o*-iodophenyl ester, dichloride, 1504¹
- C₁₂H₈Cl₂O Carbanilic acid, bis(iodophenyl) ester tetrachloride, 1504¹, 4245¹
- C₁₂H₈Cl₂N₂O Benzamide, nitro-, 2,3,4,6-tetrachlorophenylhydrazones, 5667¹
- C₁₂H₈Cl₂N₂O Fluorene, 9-iodo-9 nitro-, 925¹
- C₁₂H₈Cl₂O Carbanilic acid, bis(iodophenyl) ester, 1504¹, 4245¹
- C₁₂H₈Cl₂N₂O Fluorene, 9-nitro-, K salt, 924¹
- C₁₂H₈Cl₂N₂O Phthalimide, *N* pyridyl, 3995¹
- C₁₂H₈Cl₂O Fluorene, dinitro-, 609¹
- C₁₂H₈Cl₂N₂O Phenol, 3,5-dinitrobenzoate 2982¹
- C₁₂H₈Cl₂N₂O 1,3,5-Carboxytrifluorobenzoic acid, 8-cyano-, P 966¹
- C₁₂H₈Cl₂N₂O Thioxanthene 9-dinitro-, 2413¹
- C₁₂H₈Cl₂N₂O Aniline 2,4,6-trinitrobenzyl-, 397¹
- C₁₂H₈O 9 Fluorenone P 1260¹, 4354¹, 4250¹
- C₁₂H₈O₃ Xanthone, 9-thio-, 1239¹
- C₁₂H₈O₃ (See also Xanthone)
Naphthopyrone, 2146¹
- C₁₂H₈O₃ 1 (3,2) Benzophenanthredone, 4-hydroxy-, 2146¹
- 9 Fluorenone, 2,7 dihydroxy-, 510¹
- C₁₂H₈O₃ 2 Fluorenesulfonic acid, 9 keto-, K salt, 510¹

- C12H8O2 Naphthalenetetracarboxylic acid, 684²
C12H8O5S2 2,7 - Fluorenesulfonic acid, 9 - keto-, di A salt, 810²
C12H8O5S3 2,7 - Fluorenetrisulfonic acid, 9 keto-, K salt, 510²
C12H8AcCl4 Fluorene, 2 dichloroarsyl, 3983²
C12H8AsN3 Phenarsazine, 1-cyano-1,6-dihydro-, 109²
C12H8AsN3S Phenarsazine, 1,6-dihydro-1-thio cyano-, 109²
C12H8AsO4 2 Fluorenearsonic acid, 9-keto-, 1235², 3983²
C12H8Br Fluorant, 2 bromo-, 509²
C12H8BrINO Benzophenone, 4 - amino - 3 bromo-5-iodo-, 5614²
C12H8BrN3O Benzaldehyde, bromohydrate nitro-, *p*-nitrophenylhydrazones, 4540²
C12H8BrO Acrylophenone, *p* - bromo *p* - 2 luryl-, 506²
C12H8BrO Benzene acid, 6-bromo-2 phenyl, 511²
C12H8BrN Fluorylamide, 2,7-dibromo-, 529²
C12H8BrNO Benzamide, 2,5-dibromo-, 4868²
C12H8BrNO Benzophenone, 4 - amino 3,6 dibromo -, 5614²
C12H8BrNO 9 Fluorene amino 2,7-dibromo-, 509²
C12H8BrNO Phenol, 4 benzalmino - 2,6 dibromo -, 283²
C12H8BrNCS Ether, 4 bromo 2 (7,6 dibromo-phenylmercaptolphenyl methyl, 3339²
C12H8BrO 2 - Naphthalene-carbanol, 3,4,6 tribromo-, acetate, 916²
C12H8Cl Fluorene 2 chloro-, 809²
C12H8ClINO Phenol, 4 chloro - 2 - iodo -, carbanilate, 1504²
C12H8ClNO Acetone, 3 chloro 4 nitroso -, picrate, 4539²
C12H8ClNO Phenol, 3 - chloro 4 - nitroso -, compd with 2,4,6 trinitro - *m* - cresol 5669²
C12H8ClO Benzophenone, *p*-chloro-, 426²
C12H8ClO 9 Fluorene, 2-chloro-, 610²
C12H8ClO 1 *o*-Naphthodanone 5-chloro-, P 1260²
C12H8ClO Ether benzyl 2,4-dichloro-6-iodo phenyl, 1504²
C12H8ClO Phenol *o*-iodo-, dichloride benzoate 1504²
C12H8ClNO Benzophenone, 2,5-dichloro-, oxime 4803²
C12H8ClNO Anthracene acid, *N* {3,4 (and 3,5) dichlorophenyl}, 2146²
C12H8ClNO Benzamide, *o* chloro - *N* {6 chlorophenylsulfonyl}, 1812²
C12H8ClNO 3 Metamphic acid, 6-benzyl 2,6-dichloro- P 4719²
C12H8ClNS Benzothiazole, 4 - chloro - 1 - (6 - chlorophenyl), 4265²
C12H8ClNO Benzaldehyde, nitro-, 2,5-di chlorophenylhydrazones, 5667²
C12H8ClN Benzaldehyde (2,4,6-trichlorophenyl)hydrazones, 5406²
C12H8ClNO Benzene acid, 8 (2 4 6 - trichlorophenyl)hydrazones, 5406²
C12H8ClNO Salicylaldehyde, (2,4,6 - trichlorophenyl) hydrazones 5406²
C12H8ClNO Benzamide, nitro-, 2,4,5-trichlorophenylhydrazones, 5667²
C12H8ClO Ether benzyl 2 4-dichloro-6-iodo-phenyl, dichloride, 1504²
C12H8FO Benzophenone, *o*-fluoro-, 4239²
C12H8I Fluorene, 2-iodo-, 509²
C12H8IO Phenol, *o*-iodo-, benzoate, 1504²
C12H8KN3O Nicotinonitrile, hydroxymethyl-phenyl, K deriv, 2999²
C12H8N (See also Acridine)
- C12H8NO 7,8-Benzquinoline, 4872²
C12H8NO Acetonitrile, 2 naphthoyl, 509²
C12H8NO Acridone, 3346²
C12H8NO Benzoquinolone, 2*27*²
C12H8NO 9 Fluorenone, 4-amino- 509²
C12H8NO Isocyanic acid *p* phenylphenyl ester, 4202²
C12H8NO Phenanthridone, P 603²
C12H8NO Thiocyanic acid, 2 naphthoylmethyl ester 503²
C12H8NO 7,8 Benzquinolone 2,4(1,3) dione, P 906²
C12H8NO Fluorene, 9 nitro-, 924²
C12H8NO Carbazolecarboxylic acid hydroxy P 966²
C12H8NO 4 8 *ββ* Naphthamendione, 2 hydroxy - 1 methyl 1824²
C12H8NO Benzaldehyde, *p*-(nitrophenoxy) 2705²
C12H8NO Nicotinic acid 2 (6 carboxyphenyl) 4872²
C12H8NO 9 2 Fluorenesulfonic acid 7 amino 9 keto-, 511²
C12H8NO 2 Fluorenesulfonic acid, 9 keto-, oxime K salt 510²
C12H8NO Benzoic acid, *p*-(*p* nitrophenoxy), 2705²
C12H8NO 3 2 Fluorenesulfonic acid, 7 nitro -, and salt 510²
C12H8NO 2,7 Fluorenesulfonic acid 9 keto-, oxime 510²
C12H8NO 2 7 Fluorenesulfonic acid, nitro-, salt 509²
C12H8NO Benzothiazole 1 merapto 5 - phenyl 2999²
C12H8NO Acetamide *o* cyano *N* naphthyl, Na deriv, 3632²
C12H8NO Nicotinonitrile hydroxymethylphenyl, Na deriv, 2999²
C12H8NO Azobenzene, *p* isocyanato- 2423²
C12H8NO Isoxazole 4,5 (phenylaminoethyl carbis)- 5168²
C12H8NO Benzothiazole, 1 *p* nitroamino -, 104²
C12H8NO Phenol, 2 6 dimetro 4 (3-nitro *p*-amyl), 4573²
C12H8NO Salicylic acid, 5 (2,4 - dinitroamino) 6 sulfo -, Na salt, 3636², 5034²
C12H8NO Benzaldehyde, *p* nitro -, 2,4 di nitrophenylhydrazones, 3320²
C12H8NO See Fluorene
C12H8NO Acridonine, 5 - chloro 5,10 di hydro-, 2730²
C12H8NO Phenanthrene, dichloro-hydro-methyl, 2147²
C12H8NO Phenarsazine, 1 6 dihydro 1 hydroxy formate, 110²
C12H8NO 2 Fluorenearsonic acid, 7 amino 9 keto- and Na salt, 3983²
C12H8NO Carbanilide, *p* - bromo *p* - chlorothio-, 104²
C12H8NO Benzamide, *m*-bromo-*o*' hydroxy -, 1818²
C12H8NO 2 Naphthaleneacetamide, 3 bromo- 1 4 dihydro- 1,4-diketo *N*-methyl, 1824²
C12H8NO Benzaldehyde, *p* - bromo -, *p* nitrophenylhydrazones, 4243²
C12H8NO Carbanilide, *p*-bromo-*p*' nitrothio-, 104²
C12H8NO 2 - Naphthalene-carbanil, 3,6 - dibromo-, acetate, 946²

- C₂₃H₁₀Br₂O₂ Mesitylene, 2,6 bis(trichloroacetyl) 5404¹
 C₂₃H₁₀ClIO Ether benzyl chlorodopphenyl, 1504¹ 4245¹
 C₂₃H₁₀ClNOS Benzamide, 5 chloro 2 mercapto- 931²
 C₂₃H₁₀ClNO₂ Benzamide, m chloro o' hydroxy 1815¹
 C₂₃H₁₀ClNO₂ Benzamide 4 chloro - 3,5 dihydroxy P 5298²
 Carbamic acid 2 chloro 4 phenoxy pbenzylester P 2314¹
 Ether benzyl 4 chloro 2 nitrophenyl, 1504¹
 C₂₃H₁₀ClNS Benzothiazoline, 4 chloro 1 phenyl 426¹
 C₂₃H₁₀ClN₂O Picoline acid 4 chloro, benzal hydrazide 2429¹
 C₂₃H₁₀ClN₂O₂ Benzaldehyde p chloro, p nitrophenylhydrazones 4243¹
 C₂₃H₁₀ClN₂O₂S Benzenesulfonamide 4 chloro N methyl 3 o-dinitro- P 1100¹
 C₂₃H₁₀Cl₂Hg₂O p-Cresol a phenyl, bis(chloromercuri deriv 4204¹
 C₂₃H₁₀Cl₂O Catechol dichloro-a phenyl 3630¹
 Ether benzyl 2,6-dichlorophenyl 3635¹
 C₂₃H₁₀Cl₂O₂ 1-Naphthaldisulfonyl chloride, ethylcarbonate 4237¹
 C₂₃H₁₀ClIO Ether benzyl chlorodopphenyl, dichloride 1504¹ 4245¹
 C₂₃H₁₀Cl₂O₂ Mesitylene, 2,6 bis(trichloroacetyl) 5404¹
 C₂₃H₁₀FN₂O Benzophenone o-fluoro-, oxime 4239¹
 C₂₃H₁₀FN₂O Anisole, 4 (p-fluorophenyl) - 3, nitro- 4253¹
 C₂₃H₁₀Hg₂N₂O₂ Acetamide a cyano a (hydroxymercuri) V naphthyl, 3619¹
 C₂₃H₁₀Hg₂O₂B Benzoic acid o-(phenylmercuri mercapto), 1821¹, 4907¹
 C₂₃H₁₀Hg₂O₂ Phenol, ahydroxymercuri(hydroxymercuri) p-benzyl, 4204¹
 C₂₃H₁₀INO₂ Carbamic acid p iodophenyl ester 4245¹
 Methane iodonitrodiphenyl 925¹
 Phenol o-iodo-carbamate 1504¹
 C₂₃H₁₀IN₂O Picoline acid 4 iodo- benzalhydrazide 2429¹
 C₂₃H₁₀IN₂O₂ Benzaldehyde p iodo, p-nitrophenylhydrazones 4243¹
 C₂₃H₁₀N₂ Acridone, 5-amino- 4271¹
 Methane diazodiphenyl, 931¹, 1939¹
 p-Naphthindan 1,3 diamine, P 4717¹
 C₂₃H₁₀N₂O Diphenylureas, 1504¹
 9 Fluorenone 2,5-diamino-, 510¹
 Nicotinamide 1,2-dihydro 2 keto-methylphenyl-, 1529¹, 2149¹
 -, hydrazymethylphenyl-, 2999¹
 Xanthone, hydrazones, 2413¹
 C₂₃H₁₀N₂O₂ Acenaphthene, formamidoester-, 3988¹
 Anthranic acid, N (pyridylcarbonyl), 3000¹
 Benzophenone, p-nitro-, oxime, 5673¹
 Salicylic acid phenylazo- P 1684¹
 C₂₃H₁₀N₂O₂ Benzamide, p-(p-nitrophenyl), 2700¹
 C₂₃H₁₀N₂O₂ Methane, bis(nitrophenyl)-, 5193¹
 Phenyl methylethylammonium (P), 5399¹
 C₂₃H₁₀N₂O₂S Acridinedisulfonic acid, 3-amino- and dipotassium salt, 4271¹
 C₂₃H₁₀N₂S Benzothiazole 1 amino 3 phenyl-, 2999¹
 Benzothiazole, 1 amino-, 104¹, P 968¹
 Thioxanthone, hydrazones, 2414¹
 C₂₃H₁₀N₂O₂ Benzaldehyde, p-nitro-, p-nitrophenylhydrazones, 4243¹
 C₂₃H₁₀N₂O₂ Benzaldehyde, m-hydroxy-, 2,4-dinitrophenylhydrazones, 3320¹
 Carbamide, dinitro-, 1503¹
 C₂₃H₁₀N₂O₂ 1-Naphthalenecarboxylic acid, 2,4,5-trinitro-, Et ester, 4876¹
 C₂₃H₁₀N₂O₂ 1,2,3-Benzotriazole - 1 carboxamide, thio-, 4266¹
 C₂₃H₁₀N₂NaO₂S Benzenesulfonamide, 4-formyl-3-nitro-, Na deriv, p-nitrophenylhydrazones, 928¹
 C₂₃H₁₀N₂ Methane, diphenylbistriazine-, 4543¹, 5847¹
 C₂₃H₁₀O (See also Benzophenone)
 1-Naphthalenamine, P 1260¹
 3-Naphtholurea, 2-methyl-, 4883¹
 C₂₃H₁₀O₂ Acrylphenone, 5,2-turyl-, 5066¹, 1520¹
 Xanthidol 5154¹, 2143¹
 C₂₃H₁₀O₂ (See also Salol)
 Benzophenone, 2,4-dihydroxy-, 4565¹
 Hydroquinone, monobenzoate, 1232¹
 2-Naphthaldehyde, 3-hydroxy-, acetate, 2146¹
 1-Naphthone acid, 4 acetyl-, P 1684¹
 Quinone, 2-p-anisyl-, 291¹
 C₂₃H₁₀O₂S 2-Fluorenesulfonic acid, salts, 510¹
 C₂₃H₁₀O₂S Salicylic acid 5-(phenylsulfonyl) 2127¹
 C₂₃H₁₀O₂ Mactum, 4869¹
 C₂₃H₁₀O₂S 2,7-Fluorenedisulfonic acid, 510¹
 C₂₃H₁₀O₂ 2,7-Fluorenesulfonic acid, salts, 510¹
 C₂₃H₁₀S Benzophenone, thio-, 1239¹, 2137¹
 C₂₃H₁₀AsO₂ Acridamide acid, 2730¹
 C₂₃H₁₀AsO₂ 2-Fluorencarboxylic acid, 1235¹, 3953¹
 C₂₃H₁₀Br₂N₂O₂ Benzylamine, p-bromo-, picrate, 4243¹
 C₂₃H₁₀Br₂O₂ Benzene, 1-(p-bromophenyl) 4 methoxy-, 1816¹
 2-Naphthalenecarbinol, 3-bromo-, acetate, 946¹
 C₂₃H₁₀Br₂N₂S Samcarbazide, 4-(dibromophenyl)-1-phenylthio-, 2701¹
 C₂₃H₁₀Cl₂ Methane, chlorodiphenyl-, 5830¹
 C₂₃H₁₀ClN₂O₂ Benzylamine p-chloro-, picrate, 4243¹
 C₂₃H₁₀ClO₂ Phenol, m-(p-chlorobenzoyloxy)-, 3408¹
 C₂₃H₁₀Cl₂O Ether, benzyl piodophenyl, dichloride, 4245¹
 C₂₃H₁₀Cl₂O₂S p-Toluenesulfonic acid (sodophenyl) ester, dichloride, 1504¹ 4245¹
 C₂₃H₁₀Cl₂N₂ Benzylamine m-dichloro-phenyl-, -HCl, 3320¹
 Diphenylamine 2,4-dichloro 2 methyl-, 2147¹
 C₂₃H₁₀Cl₂O₂ 1,3-Benzodioxane 6 carboxylic acid, 4-(chloromethylene) 2 (dichloromethyl)-, Et ester, 5428¹
 C₂₃H₁₀IN₂O₂ Benzylamine, p-iodo-, picrate, 4243¹
 C₂₃H₁₀IO Ether, benzyl iodophenyl, 1504¹, 4245¹
 C₂₃H₁₀IO₂ 2-Naphthol acid, 3-iodo-, Et ester 2140¹
 C₂₃H₁₀IO₂S p-Toluenesulfonic acid, (sodophenyl) ester 1504¹, 4245¹
 C₂₃H₁₀N₂ Aniline, N benzal, 93¹, 4246¹
 C₂₃H₁₀NO (See also Drezanide)
 Acenaphthene, 1 formamido-, 3988¹

- Benzophenone, oxime, 1506^o, 2329^o, 2140^o
 Cresol, α -isoo- α -phenyl, 1231^o
 9-Fluorenone, 4 amino-, 509^o, 510^o
 Quinonimide, *N* benzyl, 502^o
 C₁₁H₁₀NO₂ 1(2) - α - Naphthothiazolone, 2 ethyl, 5169^o
 C₁₁H₁₀NO₂ Acenaphthencarboxylic acid, amino-, P 4533^o
 Benzamide acid, β hydrosyphenyl ester 1231^o
 Benzophenone, α -hydroxy-, oxime, 2712^o
 Homosodiumamine, 297^o
 Iodophenol, 2 methyl, 1552^o, 2985^o
 2 Pyrrolealdehyde, 1 β -tolyl, 2997^o
 C₁₁H₁₀NO₂ Ether 6 nitro α - tolyl phenyl P 302^o
 2 Naphthaldehyde, 3 hydroxy, acetate oxime, 2140^o
 Salicylic acid 4 amino-(7), P 1684^o
 C₁₁H₁₀NO₂ 2 Fluorocoumarone acid, 7 amino- and salt, 510^o
 C₁₁H₁₀NO₂ Benzene 1 methoxy 4 (β nitro-phenoxyl) 1810^o
 1 benzyl β (3 nitro β amyl), 4573^o
 2 Pyrrolecarboxylic acid 1 - acetyl 3 hydroxy β -phenyl 1527^o
 C₁₁H₁₀NO₂ Benzene-sulfonamide 1,2 dihydro 1 (phenylmethyl) 928^o
 C₁₁H₁₀NO₂ 2,7 Fluorenesulfonic acid, amino- Be salt, 509^o
 C₁₁H₁₀NO₂ Maleic acid (methoxymethyl) phthalimide-, 1488^o
 C₁₁H₁₀N₂, 2,1 3 Benzenazole 2 α tolyl 926^o
 C₁₁H₁₀NO₂ α Naphthothiazole 2 ethyl 1,2 dihydro 1 nitrosamine, 5169^o
 C₁₁H₁₀NO₂ Benzaldehyde β -nitrophenylhydrazide, 4243^o
 C₁₁H₁₀N₂O₂ Carbamide β nitrothio- 104^o
 C₁₁H₁₀N₂O₂ 2,5 Pyrrolecarboxylic acid 3 (β β dicyanovinyl) 4 methyl, 5 Et ester, 962^o
 C₁₁H₁₀N₂O₂ Benzene-sulfonic acid, nitro-benzaldehyde 2702^o
 β Toluene-sulfonamide, 2 nitro α phenyl amine-, 928^o
 C₁₁H₁₀N₂O₂ 1 Naphthalene-carbamate acid 2,4-dinitro- Et ester, 4876^o
 C₁₁H₁₀N₂O₂ Toluene, picrate 1816^o
 C₁₁H₁₀N₂O₂ Cresol, picrate, 1816^o
 C₁₁H₁₀N₂O₂ Orceol picrate 1816^o
 C₁₁H₁₀N₂O₂ Benzene-sulfonamide β formyl Na deriv β nitrophenylhydrazide 928^o
 Benzene-sulfonamide, 4 formyl 3 nitro Na deriv phenylhydrazide 928^o
 C₁₁H₁₀N₂O₂ Benzene-sulfonamide, 4 - formyl 3 nitro γ , β nitrophenylhydrazide, 928^o
 C₁₁H₁₀Na Mithane, diphenyl, Na deriv 1236^o
 C₁₁H₁₀Na Methane, diphenyl, 1717^o, 4774^o, 5830^o
 Naphthalene, 1-isopropenyl, 2971^o
 C₁₁H₁₀NaNO Phenoarsazone 1 ethyl 1,8 dihydro- 1-oxide, 1831^o
 C₁₁H₁₀BN₂O₂ Boric acid, (bisamido-phenyl) 1227^o
 C₁₁H₁₀BrNO₂ α Benzenesulfonamide, 5' bromo-6' hydroxy, 5408^o
 C₁₁H₁₀BrNO₂ Acetophenone, bromo-, semi-carbazone, 5417^o
 Triazene 1 (β -bromophenyl) 3 methyl 3 phenyl-, 1-oxide, 2126^o
 C₁₁H₁₀BrNO₂ 2 Pyrrolecarboxylic acid 5-bromo-
- methyl) 4 (β , β dicyanovinyl) 3 methyl, Et ester, 962^o
 C₁₁H₁₀BrN₂S Semicarbazide 4 (β bromo-phenyl) 1 phenylthio, 2701^o
 C₁₁H₁₀BrN₂O Carboxylic acid, α , β -bis(β bromo-phenyl), 1504^o
 C₁₁H₁₀Br₂Pb Plumbane, dibromophenyl α -tolyl, 2685^o
 C₁₁H₁₀ClN Acidic 5 chloro 1 2 3 4 tetrahydro- 3346^o
 Diphenylamine chloromethyl 2146^o, 2147^o
 C₁₁H₁₀ClNO Amine, 2 (benzoyl) 4 chloro P 1844^o, P 3668^o
 β -Cresol 3 β -chlorosulfone- P 4011^o
 1 Naphthoyl chloride 4-dimethylamino-, 1615^o
 C₁₁H₁₀ClNO₂ Quinone acid β -chloromethyl ester 955^o
 C₁₁H₁₀ClN₂ Ketone 6-chloro-3 pyridyl methyl phenylhydrazide, 4268^o
 C₁₁H₁₀Cl₂O 1 3 Benzodioxan 6 carboxylic acid 2 4 bis(dichloromethyl) Et ester 5428^o
 C₁₁H₁₀N₂ Benzaldehyde phenylhydrazide 503^o, 1507^o
 2 7 Fluorenesulfonamide 4813^o
 2 9 Pyridindole 1,9-dimethyl 301^o
 — 1-ethyl 300^o
 C₁₁H₁₀N₂O (See also Carbenide Hormone)
 β Cresol 2 phenylazo-, 3346^o
 9 Fluorene diamine- 510^o
 Harman 6(amide) methoxy, 301^o
 Salicylaldehyde phenylhydrazide 1507^o, 4861^o
 C₁₁H₁₀N₂O Diphenylamine 2 methyl 4 nitro 300^o
 C₁₁H₁₀N₂O₂ Benzene-sulfonamide 2 (β amino-phenyl) 1 2-dihydro, 928^o
 C₁₁H₁₀N₂O₂ Diamide *N* (2 furylcarbonyl methyl), oxime, 2143^o
 Carbamide dihydroxy, 1504^o
 Glycine, (2 quinolylcarbonyl) Me ester, 3000^o
 C₁₁H₁₀N₂O₂ Aniline, 4 (β methoxyphenyl) 2 nitro-, 1816^o
 1(2) Pyridine-acetic acid 3,6 dihydro 2 6 diketo - 3 methyl 4 phenyl 516^o
 1 Pyrrolethanol β -nitrobenzoate, 182^o
 C₁₁H₁₀N₂O₂ Benzene-sulfonic acid β (β amyl) azo 2994^o
 C₁₁H₁₀N₂O₂Pb + 2H₂O Phenyl α -tolyllead di-nitrate dihydrate 2688^o
 C₁₁H₁₀N₂S (See also Carbenide, thio-) α Naphthothiazole, 2 ethyl 1,2 dihydro 1 amino- 5169^o
 C₁₁H₁₀N₂NaO₂ Benzene-sulfonamide β formyl, Na deriv phenylhydrazide 928^o
 C₁₁H₁₀NaO₂S Semicarbazide 4 (α nitro-phenyl) 1 phenylthio, 2701^o
 C₁₁H₁₀N₂O₂S Benzene-sulfonamide β formyl, β -nitrophenylhydrazide, 928^o
 Benzene-sulfonamide, 4 formyl 3 - nitro phenylhydrazide 928^o
 Benzene-sulfonamide, 1,2 dihydro 5 nitro 2 (β phenylhydrazide), 928^o
 C₁₁H₁₀N₂O₂ Carboxylic acid, α , β -bis(β nitro-phenyl), 1504^o
 C₁₁H₁₀O (See also Benzaldehyde)
 β Cresol, α phenyl, P 115^o, 503^o
 Ketone methyl 4 methyl 1 naphthyl, P 1684^o

- Naphthalenecarbalcohol, α vinyl, 3329²
 1 Propenol 3 [(and 2) naphthyl], 3329²
 2 Propionaphthone 944¹
 C₁₃H₁₂O₃ Sulfoxide benzyl phenyl, 5063¹
 C₁₃H₁₂O₃ Benzene 1 methoxy-4 phenoxy, 1516²
 1 6 5 Benzeneophthendione, 2,3,3a,4-tetrahydro- 1832³ 5161¹
 1 Naphthol 7 methyl acetate, 1515¹
 4 3 β Naphthopyrone, 7,8,9,10 tetrahydro- 2426¹
 1 2 Naphthoquinone trimethyl, 68a¹ 2714¹
 Phenol p -(p -amyl) and compd with Π V O₂, 48² 2²
 — m -(benzyl)oxy 5408²
 — methylenethio- 503¹ 3323¹
 C₁₃H₁₂O₃ Sulfone benzyl phenyl, 5063¹
 C₁₃H₁₂O₃ Lactic acid α 1 naphthyl 2994¹
 2 Naphthoic acid, 8-methoxy Me ester, 36a¹
 C₁₃H₁₂O₃ Acetic acid (2 methoxy 1 naphthylmercapto) 3330¹
 α -Cresol 4 (phenylsulfonyl) 2127¹
 C₁₃H₁₂O₃ Umbelliferone 3 4-dimethyl, acetate, 42a1¹
 C₁₃H₁₂O₃ 4 Chromanone, 7 8-dihydroxy, diacetate 1534¹
 C₁₃H₁₂O₃ Methoxime end di Ph ester, 4810¹
 C₁₃H₁₂O₃ Benzaldehyde 2 4,6-dihydroxy triacetate 933¹
 C₁₃H₁₂O₃ Hemimellitic acid, 4 5-methylenedioxy tri Me ester, 3344¹
 C₁₃H₁₂O₃ Benzencarboxylic acid, α -benzyl 2¹ 30¹
 C₁₃H₁₂BrN₂O₃ Tryptophan bromoacetyl, 2693¹
 C₁₃H₁₂ClN₂O₃ Hydrazine, α β chlorobenzyl α phenyl 452¹
 C₁₃H₁₂N₂O₃ Benzylamine λ phenyl, 503¹, P 522², 1501¹, 151¹ 2¹ 00¹
 Diphenylamine methyl- 692¹, 1501¹
 2 6-Lutidine, 4 phenyl 272¹
 Quinolone, 2 3-butenyl 1829¹
 C₁₃H₁₂NO₃ Acetamide, N methyl N 2 naphthyl 454¹
 Acetamide V (8 methyl 2 naphthyl), 1241¹
 8(10) Acetone, 1 2,3 4 tetrahydro, 3346¹
 Cresol, amino-, 151¹ P 4011¹
 Phenol p -benzylamino- 502¹
 2 Propionaphthone oxime, 944¹
 2 Pyridol 6 ethyl 4 phenyl, 714¹
 2(1) - Pyridone, 4 methyl 6- p -tolyl, 455¹
 C₁₃H₁₂NO₃ Aniline, p -(β methoxyphenoyl), and salts 1816¹
 1 Naphthalenecarbamate acid, Et ester, 48¹ 6¹
 Δ Oxazolinol, 4 5-epoxy-4 5-dimethyl 2 (tyryl), and HCl, 294¹
 2 Propanone, 1 - (2-hydroxy-1-naphthyl), oxime, 485¹
 1 Pyrrolethanol, benzoate, 182¹
 C₁₃H₁₂NO₃ Cantharone acid, 6-ethoxy, Me ester, 954¹
 Cantharone acid 6-hydroxy, isopropyl and Et esters, 954¹
 —, 2 isopropoxy-, 3243¹
 —, 2 propoxy-, 8243¹
 Quinonic acid Et ester, 953¹
 C₁₃H₁₂NO₃ 1 Indanacetic acid, 2 3-diketone, Et ester, 2-oxime 5162¹
 1 Indolebutyric acid 2-carboxy, 514¹
 C₁₃H₁₂NO₃ 3 Alanine, N - [(and 2) - naphthylsulfonyl], 2118¹
 C₁₃H₁₂NO₃ 3-Indolepropionic acid, 2-carboxy 7 methoxy, 4880¹
 Skimmianol, 298¹
 C₁₃H₁₂O₄ Skimmianic acid, 293¹
 C₁₃H₁₂N₂O₃ Acetophenone, 3-pyridylhydrazine, 3344¹
 Aniline, α -(m -tolylaro), 926¹
 Guadinone, diphenyl, 1111¹, P 5119¹, 6000¹
 Acetalside, 2422¹
 C₁₃H₁₂N₂O₃ 2 Acetonaphthone, semicarbazone, 944¹
 Triazone, 3 - methyl - 1,3 - diphenyl, 1-oxide 2126¹
 C₁₃H₁₂N₂O₃ Cantharone acid, 6-hydroxy, isopropylhydrazide, 9a1¹
 C₁₃H₁₂N₂O₃ Benzenesulfonamide, p -formyl, phenylhydrazine, 928¹
 C₁₃H₁₂N₂O₃ Acetoacetic acid, α -cyano- α -phenyl azo, Et ester, 917¹
 Ketone, 2 furyl α -hydroxybenzyl, semicarbazone, 48¹ 6¹
 C₁₃H₁₂N₂O₃ Salicylic acid, 5-(2 4-diamino-aminol)-6-sulfo-, 6 γ salt, 0034¹
 C₁₃H₁₂N₂O₃ Benzenesulfonic acid, p (p -nitrophenylazo)-, ura salt, 287¹
 C₁₃H₁₂N₂O₃ p -Toluidine, α amino-, monophenyl, 4241¹
 C₁₃H₁₂N₂O₃ Naphthalene, isopropyl, 944¹, 5971¹
 Naphthalene, trimethyl-, 634¹, 693¹, 1232¹, 2716¹, 4044¹
 C₁₃H₁₂N₂O₃ Phenarsine, 1,6 - dihydro 1 methyl- 1 1-dihydroxy deriv, 1531¹
 C₁₃H₁₂N₂O₃ See *Vioariphenamine*
 C₁₃H₁₂N₂O₃ 3 Methanecarboxylic acid, 5 ([3 amino 4 hydroxyphenyl]arseno) 2 hydroxyaniline, Co salt, P 3775¹
 C₁₃H₁₂N₂O₃ Butyric acid, α (β -bromophenyl azo)- α -cyano-, Et ester, 917¹
 Glucosyl end, cyano-, Et ester, (β bromophenyl)ethylhydrazine, 917¹
 C₁₃H₁₂N₂O₃ Isopyrrole, 4-bromo-2 (bromodimethyl 2 pyrrol(methylene) - 3,3 dimethyl, 4280¹ HBr, 3017¹
 Isopyrrole ethyldimethyl 2 (2-pyrrol(methylene), dibromo deriv, HBr, 117¹
 C₁₃H₁₂ClNO₂ 2 Propanol, 1 - chloro - 3 - (1-naphthylamino), P 4284¹
 C₁₃H₁₂ClO₂ Phenyl chloride, p -phenyl, 5161¹
 C₁₃H₁₂N₂O₂ Pimelostatin, p -phenyl, 5161¹
 2,8 - Pyridodiol, 3 4 - dihydro 1,9 - di methyl, 301¹
 —, 1-ethyl-3 4-dihydro-, 300¹
 2 - p - Tolylenediamine, N - phenyl -, and HCl, 500¹, 601¹
 C₁₃H₁₂N₂O₂ (See also *Harmaline*)
 Harmann, 3 4-dihydromethoxy, 301¹
 p - Phenylenediamine, 3 methoxy - VI phosyl, P 1262¹
 Lysine, α ethyl- β 1 naphthyl-, 45¹ 6¹
 C₁₃H₁₂N₂O₂ Aniline, β β methylenedioxybis-, 5393¹
 1 5(5) - Benzonaphthendione, 2,3,3a,4-tetrahydro-, dioxime, 1832¹
 Carbonyl, acetamidodimethyl, 796¹ 1 1
 2 Furazonepropanamide, 8-amino-, 2143¹
 1 Isoquinolinecarboxylic acid, 3,4-dihydro-6,7-dimethoxy, and HCl, 1530¹
 α Phenylenediamine, 4 - (β - methoxyphenoxy) 1516¹
 1 Pyrrolethanol p - aminobenzoate, 182¹

- $\text{CuH}_8\text{N}_4\text{O}_2$ Barbituric acid, 5-ethyl-1-methyl-3-phenyl, P 2739
 Quinamide, *N* - β - hydroxyethyl-, 554¹
 4 - Quinoxalinecarbamate acid, 6 - methoxy, Et ester, 903²
 Urea, α - (hydroxymethyl) - β - (1-hydroxy-2-naphthylmethyl)-, 5400³
 $\text{CuH}_8\text{N}_5\text{O}_2$ Hydantoin, 5 (2,4,5-trimethoxybenzyl)-, 5403³
 $\text{CuH}_8\text{N}_4\text{O}_2$ Aspartic acid, *N* hippuryl-, 491²
 $\text{CuH}_8\text{N}_4\text{O}_2$ Benzenesulfonic acid, β - ureidobenz-, 4537¹
 $\text{CuH}_8\text{N}_3\text{S}$ Urea, α - ethyl - α - 2 - naphthylthio-, 5109²
 CuH_8N_4 Pyridine, 3 (β - dimethylammonophenylazo), and *HCl* 334²
 $\text{CuH}_8\text{N}_4\text{O}$ Carbohydrazide, α - β - diphenyl-, 1504¹
 $\text{CuH}_8\text{N}_4\text{O}_3$ Benzenesulfonic acid, β - phenylthio-, urea salt, 257²
 $\text{CuH}_8\text{N}_4\text{O}_3\text{S}$ 5-Benzosulfonazolesulfonamide, 1,2-dihydro-2 (β phenylhydrazino)-, 925²
 $\text{CuH}_8\text{N}_4\text{O}$ Ether, ethyl-1-naphthylmethyl-, P 1841¹
 1-Naphthol 4-isopropyl-, P 4557¹
 CuH_8O_2 Coumarin, 3-ethyl-4,7-dimethyl-, 4542¹
 1,3-Cyclohexanedione, 2-methyl-3-phenyl 687²
 Δ^1 -Cyclohexenone, 3-hydroxy-2-methyl-5-phenyl-, 3319¹
 2-Naphthaleneacetic acid, 1,2,3,4-tetrahydro-1-hydroxy- α -methyl-, γ -lactone P 967¹
 CuH_8O_2 Coumarin, 3-ethyl-7-methoxy-4-methyl-, 4201¹
 1-Indanacetic acid 3-keto Et ester 5162¹
 1,3-Indandione 4-hydroxy-2-isopropyl-7-methyl- 2718¹
 —, 4-hydroxy-7-methyl-2-propyl-, 2718¹
 2-Naphthaleneacetic acid 1,2,3,4-tetrahydro-1-hydroxy-8-methoxy-, γ -lactone, P 987¹
 1-Naphthalenepropionic acid, 1,2,3,4-tetrahydro-4-keto-, 1832¹ 5161¹
 1,3-Pentanedione 1-phenyl enol-acetate, 5394¹
 Umbelliferone 3-isopropyl-4-methyl-, 4869¹
 —, 4-methyl-3-propyl 4869¹
 CuH_8O_2 Chalcone, 5,7-dimethoxy-2,3-dimethyl-, 4250¹
 Coumarin, 5,7-dimethoxy-3,4-dimethyl-, 4250¹
 Et ester, m 103-4° oil acid from dihydrocamphalaccol, 5119¹
 1,3-Indandione, 4-hydroxy-6-methoxy-2-propyl-, 2140²
 Pyrocatechol, 4-propenyl-, diacetate, 5107¹ 5409²
 $\text{CuH}_8\text{O}_3\text{S}$ Sulfonic acid, methylphenyl(phenylsulfonyl)-, and *K* salt, 283²
 CuH_8O_2 Acrylic acid β - (2,4-dimethoxybenzyl)-, Me ester, 4868¹
 Compd from lettuce, 5690¹
 CuH_8O_2 1,1,3-Propanetricarboxylic acid, methyl-2-phenyl-, 83²
 α - Toluenediol, α -hydroxy-, triacetate, 933²
 $\text{CuH}_8\text{BrN}_4\text{O}$ Isobutyrophenone, α - bromo-2-4,6-trimethyl-3,5-dinitro-, 503²
 CuH_8BrO_2 Isovaleric acid, β -bromophenacyl ester, 920²
 Pivalic acid, β -bromophenacyl ester, 1829²
 Valeric acid, β -bromophenacyl ester, 920²
 CuH_8BrO_2 Benzyl alcohol, α -(α -bromoethyl)- β -hydroxy-, diacetate, 4338²
 CuH_8BrO_2 Piperonyl alcohol, α -(α -bromoethyl)-5-methoxy-, acetate, 4338²
 CuH_8BrO Isobutyrophenone, α , β , 3,5-tribromo-2-4,6-trimethyl-, 503²
 CuH_8ClN_2 Isopyrrole 2 [chloro(3,5-dimethyl-2-pyrryl)methylene] 3,5-dimethyl-, and *HCl*, 5000¹
 $\text{CuH}_8\text{ClN}_2\text{O}$ Isoquinoxalidine 1 (chloromethyl)-1,2,3,4-tetrahydro-5,7-dimethoxy 1530²
 $\text{CuH}_8\text{ClN}_2\text{O}_2$ Tyrosine *N* - chloroacetyl-2-salt-, Et ester 2694¹
 CuH_8ClO_2 1,4-Naphthalenediol 2-chloro-1,4-dihydro-1,3,4-trimethyl-, 4339²
 CuH_8N Isoquinoline 3-butyl- 1829¹
 Quinoxaline 2-butyl-, 1829² and salts, 1829²
 CuH_8NO_2 2-Indolichutyric acid Me ester, 514¹
 Quinoxaline, 6- β -methoxy P 1333²
 CuH_8NO_3 Benzylamine, benzenesulfonate, 5150¹
 $\text{CuH}_8\text{NO}_3\text{S}$ Rhodamine 3-(3,4-dimethoxyphenethyl)-, 4241¹
 CuH_8NO_2 Oxamic acid, 2-carboxy-4,5-di-methoxy-, di Me ester 2149¹
 CuH_8NS Nitriles from 2-thiophenecarbaldehyde and cryptopyrrole, *HBr*, 112²
 CuH_8N_2 Ketone methyl- β -methyl-2-pyrryl, phenylhydrazones 3005¹
 $\text{CuH}_8\text{N}_2\text{O}$ Butyric acid α -cyano- α -phenyl-azo- Et ester 917²
 Glyoxylic acid cyano-, Et ester, ethyl-phenylhydrazones 917²
 Malonaldehyde acid, cyanomethyl-, Et ester phenylhydrazones 2696¹
 $\text{CuH}_8\text{N}_4\text{O}$ 3-Ilydantanoaceto-2,4-ylide, 4228¹
 1-Naphthaleneacetic acid 1,2,3,4-tetrahydro-4-keto- semicarbazone, 5161¹
 $\text{CuH}_8\text{N}_4\text{O}_3$ Azo dye from 2-ethyl-5-methylpyrrole and $\text{HO}_2\text{SC}_6\text{H}_4\text{N}_2\text{Cl}$, 3008¹
 $\text{CuH}_8\text{N}_4\text{O}$ Acetazone and α -benzoyl-, Me ester, semicarbazone, 3631¹
 Δ^1 -1-Butenone, 3-hydroxy-1-phenyl semicarbazone, methylcarbonate, 3631¹
 $\text{CuH}_8\text{N}_4\text{O}_2$ Acetoacetic acid, α -methyl- α -(*m*-nitrophenylazo)-, Et ester, 917²
 $\text{CuH}_8\text{N}_3\text{S}$ 2(1) Thiazolone, 4- β -tolyl-, amine with acetone, 1032²
 $\text{CuH}_8\text{N}_4\text{O}_2$ Allylamine, picolinate, "O"
 CuH_8 Cyclohexene, 1-benzyl-, 2838²
 Cyclohexene, 3-methyl-3-phenyl-, 3970²
 Naphthalene, dihydrodimethyl-, 693¹ 1230²
 $\text{CuH}_8\text{BrNO}_2$ Anthranic acid, *N*-(α -bromocaproyl)-, 492¹
 Benzene acid β - (α - bromocaproyl amino)-, 492¹
 $\text{CuH}_8\text{BrNO}_2$ Diethyl ester, m 115°, of di-carboxylic acid which slowly carbonizes above 230°, 1820²
 CuH_8BrO Isobutyrophenone, 3,5-dibromo-2-4,6-trimethyl-, 503²
 CuH_8ClNO α -Tyrosine, N -chloroacetyl-, Et ester 2694¹
 $\text{CuH}_8\text{ClNO}_2$ α -Tolonic acid, α - (α - chloroacetamido) - 3,4,5-trimethoxy-, 1226²
 CuH_8ClN_2 Azo dye from 2-ethyl-5-methylpyrrole and PhN_2Cl , 3008¹
 $\text{CuH}_8\text{HgNNH}_4\text{O}_2$ See *Sulzgras*
 CuH_8IN Trimethyl-2-naphthylammonium iodide, 4343²

- C₁₂H₁₆N₂ Isopyrrole, ethyldimethyl 2 (2 pyrrolimethyls), *HBr*, 112^o
 Quinoxaline 2 (β ethylaminoethyl) 4270^o
 C₁₂H₁₆N₂O Acridine, 1,2,3,4,4a,5,10,10a octahydro-10 oxirino- 5675^o
 Benzoxazole 1 ammonia 2a,3,4,5,6,6a hexahydro, 3617^o
 Harmine tetrahydro, 700^o 741^o
 Ketone has(3,5 dimethyl 2 pyrrol) and *HBr* 5599^o
 C₁₂H₁₆N₂O₂ 2 Indanacetic acid α 2 dicyano-hexahydro-, 3333^o
 Leucine *N* anthrenoyl, lactam, and *HCl*, 492^o
 Quinoxaline, 8 amino 5 isopropoxy 6 methoxy, *P* 5434^o
 Spiro[indan 2,3 pyrroline] 4 nitrile 2 5'-diketo- 3333^o
 C₁₂H₁₆N₂O₂ Benzoxazole α (α methyl 2 m dithiazylidenedehydrazino), *Me* ester 2697^o
 C₁₂H₁₆N₂O₂ Acetamide α cyano *N* (2,4 dimethoxyphenethyl) 1530^o
 Levulinic acid α toluidylhydrazono 1821^o
 C₁₂H₁₆N₂O₂ Hydantoin 5 (2,4,5 trimethoxy benzyl) 5404^o
 Leucine *N*-o-nitrobenzoyl 492^o
 4 Morpholinethanol *p* nitrobenzoate *HCl* 4272^o
 C₁₂H₁₆N₂O₂ Cycloheptanone 2,4 dinitrophenyl hydrazono 3319^o
 Dinitrophenylhydrazono m 172^o, of ketone b.m. 140^o, 1499^o
 C₁₂H₁₆N₂O₂ 2 Morpholine 4 ethyl-3 methyl, picrate 5143^o
 C₁₂H₁₆N₂O 1(2) Naphthalenone 2,4 dihydro-trimethyl- 6241, 4341^o
 2 Propionaphthone, 6,6,7,8 tetrahydro 943^o
 C₁₂H₁₆N₂O₂ Cinnamic acid 2,4-dimethyl *Et* ester 693^o
 Crotonophenone, *p* ethoxy *p* methyl, 4581^o
 2 Hexanone, 3 (*p* hydroxybenzyl) 2152^o
 2 Protonone 3 anisal 2132^o
 β-Pentenone acid *γ* phenyl, *Et* ester, 1800^o
 C₁₂H₁₆N₂O₂ Hydrocinnamic acid α acetyl *Et* ester, 82
 Spiro[cyclopropane 1,2 - indan] 2,3 dicarboxylic anhydride, hexahydro 3334^o
 C₁₂H₁₆N₂O₂ Cinnamic acid, 2,4 dimethoxy α,β-dimethyl, 5420^o
 5 m Dioxanol, 2,2 - dimethyl-, benzoate, "6"
 1,3-Dioxolane 4 carbinol, 2,2-dimethyl, benzoate, 3636^o
 Glutaric acid, *p* benzyl-methyl, 1803^o
 —, β-(α-methylbenzyl), 1803^o
 Malonic acid, phenyl, di-*Et* ester, 2986^o
 Ibenol, 2 (methoxymethoxy)propenyl acetate 5409^o 3,3
 Fimelic acid, *γ* phenyl, 1832^o, 5181^o
 Spiro[cyclopropane - 1,2' - indan] 2,3 dicarboxylic anhydride, hexahydro-2 hydroxy, 3335^o
 C₁₂H₁₆N₂O₂ Capric acid, α-(2,4-dihydroxyphen- soy)-, *P* 2733^o
 (Isonamic acid, ethoxydimethoxy, "6", "6a"
 1,3 Dioxolane 4 carbinol, 2,2 dimethyl,
- p*-hydroxybenzoate, 3636^o salicylate, 3636^o
 Propiophenone, 4 hydroxy - 2,6 di-methoxy, acetate, 4200^o
 C₁₂H₁₆O₂ Succinic acid, (2,4 - dimethoxy phenyl), mono-*Me* ester, 4866^o
 C₁₂H₁₆O₂ Gluco m hydroxybenzaldehyde, 2697^o
 Helson, 1232^o
 Rucic acid di *Me* ester, 1010^o, 3339^o
 Salicylic acid, *p* xyloside, *Me* ester, 5677^o
 C₁₂H₁₆BrO Isobutyrophenone, α - bromo 2,4,6-trimethyl, 503^o
 C₁₂H₁₆BrO Spiro[furan 3(2),2' - indan] - 2 carboxylic acid, 4 bromooctahydro 5 keto, 3334^o
 C₁₂H₁₆ClO Isovaleryl chloride, α-methyl-*γ* acetyl 4544^o
 Valerylchloride, *γ* 2,4 xylyl, 6941^o
 C₁₂H₁₆IN₂O Urea, α 2 iodocyclohexyl *p* phenyl, 3716^o
 C₁₂H₁₆IN₂Thiazole, 2 [*γ* (3,4 dimethyl 2(3) thiazolylidene)propenyl] 4 methyl methiodide, 7041^o
 C₁₂H₁₆N Acridine 1,2,3,4,4a,5,10,10a-octa-hydro-, 2340^o
 2 Benzo[*p*]quinoxaline, 1,3,4,6,11,11a - hexahydro- 5429^o
 Cycloheptanone 4b,5,6,7,8,9,9a 10 octa-hydro, 5674^o
 9 Fluorolaminate 1,2,3,4,4a,9a hexahydro, 511^o
 Indoline, 1,3,5 tetramethyl 2 methyl ester- *P* 826^o
 Quinoxaline, 2 butyl 1,2-dihydro-, 1829^o
 C₁₂H₁₆NO Acetophenone α (1 piperidyl), 42^o 61^o
 α Hexanamide *γ* methyl, 71^o
 Hydroxornamide, *γ*-methyl-, 71^o
 1(2) - Naphthalenone, 2 dimethylamino-methyl 3,4-dihydro-, *HCl*, *P* 1639^o
 Pyrrolidone, 1 benzoyl-2-methyl, 4524^o
 Quinoxaline, 1 - acetyl-1,2,3,4 tetrahydro 2,4-dimethyl, 705^o
 C₁₂H₁₆NO₂ 2 Hexanone 3 (*p* - hydroxy benzal), oxime, 2132^o
 2 Pentanone 2 anisal, oxime, 2132^o
 C₁₂H₁₆NO₂ Caproic acid *γ*-benzamide-, 4023^o, 4543^o
 2,4 Diacetoxylic acid, 6 methoxy 930^o
 Glutaric acid *p*,β-dimethyl, 3625^o
 4 Morpholinethanol, benzoate, -*HCl*, 4272^o
 C₁₂H₁₆NO₂ Anthranic acid, *N* (α hydroxy isocaproyl), 4921^o
 Benzoic acid, *p* (α hydroxyisocaproylamino), 4921^o
 Nicotinic acid, 5 acetyl 1,6 - dihydro 5 - keton 1,2,4 trimethyl, *Et* ester, 295^o
 3 Pyrazoleacrylic acid, 5 carboxy 2,4 - dimethyl, *Et* *Me* ester, 962^o
 C₁₂H₁₆NO₂ Carbamic acid, (2,4,5 - trimethoxy benzoyl), *Et* ester, 5154^o
 Glutamine, *N* benzoyl-, 3965^o
 2 Pyroglutamic acid, 4 (β,β di carboxyethyl) 3,5 dimethyl, *Et* ester, 391^o
 C₁₂H₁₆NO₂ Leucine, *N* (m carboxyphenylmethyl), 491^o
 C₁₂H₁₆N₂O (See also Pyrimidines)
 2 Acetaminophenone, 5,6,7,8 - tetrahydro, semicarbazone, 943^o,

- Benzoxazole, 2a 3,4,3,6,6a hexahydro 1 β phenylhydrazono, and HCl, 3617²
- Cinnamaldehyde, α isopropyl, semicarbazone, 4247²
- Cyclohexanone, 4 phenyl, semicarbazone 5161²
- 1(2) - Naphthalenone, 3,4 dihydro: methyl, semicarbazone, 693², 1232²
- 1 Piperidinecarboxylic acid, benzalhydrazone, 4269¹
- Semicarbazone, m 162², of compd b: 140-1 5², 4857¹
- C₁₀H₁₁N₃O₅ 2,4 Pentanedione, thio 4 β tolylsemicarbazone 1225²
- C₁₀H₁₁N₃O₂ α Heptenaldehyde β nitrophenylhydrazono, 5140²
- C₁₀H₁₁N₃O₂ Hydrazine, α acetyl β dimethyl osamyl = methyl β phenyl, 3435²
- Valeric acid, 4-benzoyl, semicarbazone 2135²
- C₁₀H₁₁N₃O₂ Isopropylamine, picrolonate 70¹
- Propylamine, picrolonate, 70¹
- Trimethylamine picrolonate, 70¹
- C₁₀H₁₁N₃O₂ Alanine, N glycol, Et ester, picrate, 5899¹
- C₁₀H₁₁N₃O₂ Naphthalene 1,2,3,4 tetrahydro 6 isopropyl, 943²
- Naphthalene, 1,2,3,4 tetrahydro 1,6,8 trimethyl, 694¹
- C₁₀H₁₁N₃O₂ 2,2 Indandiacetic acid, α , α' dibromohexahydro- 5334¹
- C₁₀H₁₁ClN₃O₂ Carbonyl acid, β chlorophenyl β -diethylaminoethyl ester HCl, P 1900²
- Propionamide β chloro N (2,4 di methoxyphenethyl), 1500²
- C₁₀H₁₁ClN₃O₂ Benzothiazole 4 chloro 1 hexyl 4265²
- C₁₀H₁₁ClN₃O₂ 4 ethyl 3 methyl, chloro platinate compd, 5867²
- C₁₀H₁₁N₃O₂ Semicarbazide, 4 (3 isocyclohexyl)-1 phenyl, 3617¹
- C₁₀H₁₁N₃O₂ Levulinic acid Et ester phenyl hydrazono, 496²
- 2 Pentanone, 4 methyl, osone, carbanilate, 1506²
- 1 - Pyrrolidineethanol, β aminobenzoate 182²
- C₁₀H₁₁N₃O₂ Benzoic acid β benzylamino-, 492²
- Carbanilic acid, β -acetamido-, Ha, set Bo and isobutyl esters, 5404²
- Isoleucine N phenylcarbamyl, 2417²
- Lysine, N⁴ benzoyl-, 2973²
- 4 Morpholacetanilol, β aminobenzoate HCl 4272¹
- C₁₀H₁₁N₃O₂ Butyric acid, γ methylisercapto = β tolylcarbamido- 5396²
- C₁₀H₁₁N₃O₂ Carbanilic acid, β nitro-, hexylester 2686²
- C₁₀H₁₁N₃O₂ Benzothiazole, 1 amylamino 3 methyl, 4881¹
- Benzothiazole, 1-isosamylamino 3 methyl 4881¹
- C₁₀H₁₁N₃O₂ Isopyrrole, 4 amine 2 (4 amino-3,5 dimethyl 2 pyrrolimethylene) - 3 5-dimethyl, hydrobromide, 961²
- ketone, bis(3,5 dimethyl-2 - pyrrol), hydrate 5899²
- C₁₀H₁₁N₃O₂ Carbanilic acid [o-(4-p-tolyl-3 thiosemicarbazido)ethylidene], Et ester, 3651¹
- C₁₀H₁₁N₃O₂ Caproaldehyde, ϵ hydroxy γ methyl, 2,4 dinitrophenylhydrazono, 3062²
- C₁₀H₁₁N₃O₂ Theophylline β glucosideside, 4278²
- C₁₀H₁₁N₃O₂ Heptamethylamine, picrate, 1500²
- C₁₀H₁₁N₃O₂ Carbohydrazone α -(1 piperidyl carbonyl) picrate 4269¹
- C₁₀H₁₁O₂ Cyclohexanol, 1 methyl 2 phenyl, 3970²
- Either butylphenylalyl, 2132²
- ethyl 5 6 7 8 tetrahydro 2 - naphthyl methyl P 2725²
- phenyl α , α , γ -trimethyl Δ^4 -butenyl, 2982²
- phenyl α , α , γ -trimethyl Δ^4 -butenyl, 2982²
- Phenol α (m methyl Δ^4 hexenyl) 2982²
- C₁₀H₁₁O₂ Acetophenone 5 butyl 2 hydroxy 3 methyl 929²
- Acetophenone 3 ethyl 2 hydroxy 5 propyl 930²
- Heptene 1,2 diethoxy 4 propenyl 5409²
- Butyric acid 6 ethyl α tolyl ester, 929²
- Butyrophepae 3 ethyl 4 hydroxy 5 methyl 929²
- α -Cresol 4-hydroxy- acetate 929²
- Enanthophenone hydroxy, 1229¹
- Hydrocinamic acid, o (and p)-ethyl-, Et ester 927¹
- Isovaleric acid, α methyl- γ -o-tolyl, 4544¹
- Mucrol, 3438²
- Phenol 2 ethyl 4 propyl-, acetate, 930²
- Spiro[cyclopentane 1,2 - indan]dione hexahydro-, 3334¹
- Valeric acid γ -2,4 xylyl 694¹
- 2,6-Xylenol, 4 propyl acetate 939²
- C₁₀H₁₁O₂ Acetic acid (o-amylphenoxy), 1229¹
- Benzoic acid (and 2) (ethoxymethoxy) 2 (and 1) methoxy 4 - propenyl 5359¹
- Spire[indan 2,4 1,4 pyran] 2,6 (3,5)-dione hexahydro-, 3333¹, 3334¹
- C₁₀H₁₁O₂ Divanilic acid Et ester 5413¹
- Enanthic acid, γ (2,4 dihydroxyphenyl) P 2737¹
- 2 Menthanemalonate acid, 1,4 dihydroxy diacetate, 4227²
- Spiro[cyclopropane 1,2' indan] 2,3 dicarboxylic acid hexahydro-, 3334¹
- Spiro[furan - 3(2),2 - indan] 2 carboxylic acid, octahydro-5-keto-, 3334¹
- C₁₀H₁₁O₂ 3 Camphanecarboxylic acid, 2,3 epoxy 2 hydroxy acetate 4870²
- Hydrocinamic acid, 2,4,5 - trimethoxy, Me ester, 4405²
- 2,3 Indandiacetic acid, hexahydro α keto 3334¹
- Spiro[cyclopropane 1,2 indan] 2,3 dicarboxylic acid hexahydro 2 hydroxy, 3335¹
- Spiro[furan - 3(2),2 - indan] 2 carboxylic acid, octahydro 4 - hydroxy - 5 - keto -, 3335¹
- C₁₀H₁₁O₂ See Salicin
- C₁₀H₁₁O₂ Ribose, tetraacetyl, 4229²
- C₁₀H₁₁NaO₂ Arsanilic acid, N - (β propylcarbamylpropionyl)-, and β -Na salt, 5407²
- C₁₀H₁₁N₃O₂ Benzothiazole, 1 amylamino 3 methyl- γ hydrobenzabromide, 4881¹
- Benzothiazole, 1-isosamylamino 3-methyl-, hydrobenzabromide, 4881¹
- C₁₀H₁₁ClS Sulfide, γ -chloroheptyl phenyl, 5395¹

- CuH₁₁FO: Fructose 2-fluoromethylfractetyl, 4232¹
- CuH₁₁N Xenylamine, hexahydenmethyl, P 712¹
- C₁₁H₁₁NO Isovaleramide, α methyl γ o-tolyl 454¹
- 2 Naphthol 2 (dimethylaminomethyl) 1 2 3 4 tetrahydro and salts 364²
- 2 Naphthylamine 1 2 3 4 tetrahydro 1 methoxy N dimethyl-, and HCl, 2139¹
- 1 Piperidinethanol, o phenyl γ, HCl, 427¹
- Valeramide γ 2 4 acetyl 594¹
- Valeramide, N β-dimethyl 489¹
- Xenylamine hexahydromethoxy P 712¹
- CuH₁₁NO₃ Acetanilide p isomomoy, 2706¹
- Benzyl alcohol o (β allyloxy o methyl aminomethyl), 2133¹
- Propiophenone β (ethoxyethylammon) 506¹
- CuH₁₁NO₃ Pyrrolidine 2 ethyl 1 - p tolylsulfonyl 4029¹
- CuH₁₁NO₃ 2 Pyrrolicarboxylic acid, 4 acetyl 5 methyl 3 propyl Ester, 3010¹
- 2 Pyrrolicarboxylic acid, 4 (β - ethoxy vinyl) 3 o dimethyl, Ester 1520¹
- 2 Pyrrolicarboxylic acid 3 5 dimethyl 4 propyl Ester 3009¹
- Tyrosine, isobutyl ester and HCl, 2742¹
- CuH₁₁NO₃ Homopiperonylamine, β, 5 - di methoxy N = dimethyl, and HCl, 453²
- 2 3 Pyrrolicarboxylic acid, 1 - methyl di Me ester, 364¹
- CuH₁₁NO₃ 3 Pyrrolicarboxylic acid 5 carbethoxy 2 (methoxymethyl) - 4 methyl, 4009¹
- o-Toluidine, glucoside, 5667¹
- CuH₁₁NO₃ o-Anilidine glucoside, 5667¹
- CuH₁₁NO₃ 2 Butanone, 3 - methyl 4 - tolyl, semicarbazone 4544¹
- 3 Hexanone, phenyl, semicarbazone 4871¹
- Pentanone, methylphenyl, semicarbazone, 4871¹
- Semicarbazone m 71-3¹, of compd be 123-4 5 4871¹
- CuH₁₁NO₃ 2 Butanone 4-p-aminyl 3-methyl, semicarbazone, 691¹
- Caprophenone o-hydroxy, semicarbazone 1229¹
- 2 Pentanone, 3 p-aminyl, semicarbazone, 691¹
- CuH₁₁N₂O₂ Leonurine, "71", 128¹
- CuH₁₁N₂O₂ Pentamethylenetetramine, dimethyl picrate 4523¹
- CuH₁₁N₂O₂ Iphenyl 3469¹
- CuH₁₁N₂O₂ 3 Benzenesulfonamide, p bromo N heptyl, 2704¹
- CuH₁₁N₂O₂ Ithidine N-m-bromosacetyl, methyl ester, 518¹
- CuH₁₁ClNO₂ Benzylcarboxymethyl dimethyl ammonium chloride, Et ester, 91¹
- CuH₁₁HgO₂ Compd from I heptane and Hg (OAc)₂ 71¹
- CuH₁₁INO (Methoxyindanyl)trimethylammonium iodide, 2139¹
- 2(1) - Pyridone, 5 - iodo - 1 octyl, and HCl, 9-3¹
- CuH₁₁N₂O₂ (see also Fluoride)
- Isoquinoline, 1 - (β - aminomethyl) 1,2,3,4 tetrahydro - 6,7 - dimethoxy γ, and di-HCl, 1539¹
- CuH₁₁N₂O₂ Guanacoli, (α - dimethylamino-ethyl)-, methylcarbamate, 4241¹
- CuH₁₁N₂O₂ Glucose, 2 methyl-, phenylhydrazine, 1804¹
- CuH₁₁N₂O₂ 3 Benzenesulfonamide, Me ester, compd with hexamethylenetetramine, 3322¹
- CuH₁₁N₂O₂ 1 - Phenol - 4 - sulfonic acid, Me ester, compd with hexamethylenetetramine, 3322¹
- CuH₁₁N₂O₂ Heptylamine, picrate, 70¹
- Tricarballic acid, β (hydroxymethyl), lactone, 3128¹
- CuH₁₁N₂O₂ 2 Butanol, 1 - ethylamino 3 - methyl, picrate, 2690¹
- Heptylamine, styphnate, 70¹
- 2 Propanol, 1-diethylamino, picrate, 2690¹
- CuH₁₁N₂O₂ 1 2 Cyclopentanedicarboxylic acid, 3,5 dioxo, di Et ester, dimeric carbamate, 2631¹
- CuH₁₁O₂ Crocol, 4 butyl-5 ethyl, 920¹
- Iomene, 2934¹
- Phenol, heptyl, 1229¹
- CuH₁₁O₂ 1 Heptanol, 7 phenylmercapto-, 5395¹
- CuH₁₁O₂ 2 Iodeneacetic acid 3a,4 5 6,7,7a - hexahydro-, Et ester, 3333¹, 3334¹
- Phenol m (heptyloxy)-, 5408¹
- Resorcinol, heptyl, 2453¹, 3091¹, 4611¹
- CuH₁₁O₂ 2 Indanacetic acid, 2 - acetylhexahydro-, 3333¹
- Orthobenzene acid, tri Et ester, 2976¹
- CuH₁₁O₂Pb Furanacrylic acid, triethyllead salt, 2463¹
- CuH₁₁O₂ Camphanecarboxylic acid, hydroxy, acetate, 5166¹
- 2 Indanacetic acid 2 carboxyhexahydro-, mono Me ester, 3333¹
- , hexahydro 2 hydroxy, acetate, 3333¹
- 2,2 Indandiacetic acid, hexahydro-, 3333¹, 3334¹
- CuH₁₁O₂ 1,2 - Cyclohexanedicarboxylic acid, 3 (carboxymethyl) - 2 4 dimethyl - 3-hydroxy 3558¹
- 1 2,3 Cyclohexanetricarboxylic acid, 2,4 - dimethyl, 1,2-di Me ester 3657¹
- CuH₁₁O₂ 1,1 2 Bulanetricarboxylic acid, 3 - keto-, tri Et ester, 3631¹
- CuH₁₁O₂ Glucoside, diacetyl ethylidene-β methyl, 5147¹
- Glucoside, ethylidenemethyl, diacetate, 5401¹
- Pentaerythritol tetraacetate, 1802¹
- Rhamnose γ-triacetyl methyl, 86¹
- CuH₁₁OP₂ Phosphane, p - aminylpropyl, dibromide, 283¹
- CuH₁₁N₂ Diethylamine, N (γ - phenylpropyl), P 2153¹
- Pyridine, dibutyl, and chlorophane acid, 1629¹
- CuH₁₁NO₂ Phenethylamine, N, N diethyl - p - methoxy, P 2153¹
- 1 - Propanol 3 - [methyl(γ phenylpropyl) amino], 2710¹
- CuH₁₁NO₂ Benzyl alcohol, m - (o methylamino-β propoxycetyl), 2133¹
- CuH₁₁NO₂ Benzenesulfonamide, N heptyl, 2704¹
- Mesitylenesulfonamide, V butyl, 2 04¹
- β Toluenesulfonamide, N heptyl, 2704¹
- CuH₁₁NO₂ Phenethylamine, β 3 4 - trimethoxy - N, = dimethyl, and -HCl, 4538¹
- 2 - Pyrrolicarboxylic acid, β - (ethoxy methyl) - 4 ethyl - 3 - methyl γ, Li ester, 4009¹

- C₁₁H₁₉NO₄ Glutaric acid, α -cyanoethyl β methyl di Et ester, 1503^{1,2}
- Glutaric acid, α -cyano- β , γ -trimethyl-, di Et ester, 82³
- 2 - Pyrrolicarboxylic acid, 4 (α β - dimethoxyethyl) - 3,5 - dimethyl, Et ester, 1520⁴
- C₁₁H₁₉N₂O Piperidine, 1 - [β - (α aminoisobutyl) ethyl], P 1036⁵
- C₁₁H₁₉N₂O 2 - Propanone, 1 (hexahydro 2 indanylidene), semicarbazone, 333⁶
- Spiro[cyclohexane - 1,3 (3a) - indazole] 2' - carbamyl - 4',5',6,7' tetrahydron 702⁷
- C₁₁H₁₉N₂O 2 - Heptanone, 4 (2 isuryl) 6 methyl, semicarbazone 5424⁸
- C₁₁H₁₉N₂O Camphor 5-hydroxy, semicarbazone acetate, 2920⁹
- C₁₁H₁₉OP Phosphine, β amylidopropyl and HgCl compd., 283¹
- C₁₁H₁₉AsN Diethylthiazolidine cyanide 4220²
- C₁₁H₁₉BrN₂O Leucine, N - [N (N bromoacetyl)glycyl]alanyl, 2693³
- C₁₁H₁₉Cl₂O 3 - β - Menthaacetic acid 1 4 dichloro-, Me ester 4228⁴
- C₁₁H₁₉HgI₂P Diethylmethyl - 2,5 xylipbophonium iodide, HgI₂ deriv 2⁷02⁵
- C₁₁H₁₉INO (β Methoxy α methylphenethyl trimethylammonium iodide 1814⁶
- C₁₁H₁₉I₂P Diethylmethyl 2,5 xylipbophonium iodide, 2702⁷
- C₁₁H₁₉I₂P Diethylmethyl 2,5 xylipbophonium fluoride, 2⁷02⁸
- C₁₁H₁₉N₂O 2 - Pyrrolicarboxamide N,1 di butyl, 951⁹
- C₁₁H₁₉N₂O Hydrazine, 2 β ; cymyl, lactate 1227¹
- C₁₁H₁₉N₂O 3 - Ithydialmucetic acid, ester with 2 octanol 4228²
- C₁₁H₁₉N₂O Compd m 244-5¹ from compd m 240-2¹ and semicarbazide 3353³
- C₁₁H₁₉O₂ Camphane-carbinol acetate 507⁴
- 2 Indacetic acid and hexahydro-, Et ester, 3333⁵
- C₁₁H₁₉O₂ 2 Indacetic acid hexahydro 2 hydroxy Et ester, 3333⁶ 3334⁷
- Orthoacetate acid, phenyl- tri Et ester 2135⁸
- C₁₁H₁₉O₂ Δ^1 Cyclohexenecarbinol, α ethyl α ,4 dimethyl, acetate, 4857⁹
- Cyclopentanecarboxylic acid, 1 carboxy 2 methyl, di Et ester, 4254¹
- Cyclopentanecarboxylic acid, 3 methyl, di Et ester, 4234²
- C₁₁H₁₉BrN₂O Glycine N [N - (β bromoisovaleryl)leucyl] 78³
- Isovaleric acid, β [N - (α - bromoisocaproyl)glycyl]ammonium, 78⁴
- C₁₁H₁₉ClN₂O Isovaleric acid β - (N chloroacetyl)leucylammonium, 78⁵
- C₁₁H₁₉IN₂ Spiro[cyclohexanone 1 3 (3'a) indazole], 4,5,6,7' - tetrahydro, methuodide, 702⁶
- C₁₁H₁₉N 9 Fluorylamine, dodecahydro-, salts, 511⁷
- C₁₁H₁₉N₂O Δ^1 α - β - Menthaacetaldehyde, semicarbazone, 4550⁸
- C₁₁H₁₉N₂O Glycine, N (N propylbenzyl), 2974⁹
- C₁₁H₁₉Cl₂HgI₂N₂O Malonamide, α α - bis-(chloromercury) N, N' - ducamyl, 1219¹
- Malonamide, N, N' - ducamyl - α α - bis-(chloromercury), 1219²
- C₁₁H₁₉N₂O Leucine, N [N - (N - glycidylglycyl) alanyl] 2693³
- C₁₁H₁₉O₂ Undecanaphthoic acid, Et ester 3630⁴
- C₁₁H₁₉O₂ Acetic acid (3 β - methoxyloxy) Me ester, 5672⁵
- C₁₁H₁₉O₂ Malonic acid (α ethylpropyl)isopropyl mono-Et ester 1219⁶
- C₁₁H₁₉O₂ Glutaric acid β hydroxy α α β , γ tetramethyl, di Et ester 4530⁷
- Malonic acid, (β butoxyethyl) di Et ester 3958⁸
- C₁₁H₁₉O₂ Undecylic acid hydroxyisulfide, acetate 3314⁹
- C₁₁H₁₉O₂ Celluboside β methyl 85¹
- Centoboside, 1 β methyl, 5401²
- Glucose 1 β methyl 6 α glucoside 5401³
- Mannose 4 galactoside α methyl 1222⁴
- 4 glucoside α methyl 1221⁵
- C₁₁H₁₉BrN₂O Lysine N⁴ (α bromoisocaproyl) N⁶ methyl 2974⁶
- C₁₁H₁₉BrO₂ Lauric acid α bromo-, Me ester 5663⁷
- C₁₁H₁₉NO Propionamide, N methyl, 1233⁸ 4456⁹
- C₁₁H₁₉N₂O Δ^1 3 Heptanone 2 2 5 5 5 pentamethyl semicarbazone 3030¹
- 2 β Menthaacetaldehyde, semicarbazone 4650²
- C₁₁H₁₉N₂O Glycine N [N (β aminoisovaleryl)leucyl] 78³
- Isovaleric acid β (N glycidyleucylammonium), 78⁴
- , β (N terephthalylammonium) 78⁵
- C₁₁H₁₉IN 3 Carvomenthenyltrimethylammonium iodide 1234⁶
- C₁₁H₁₉N₂O Malonamide, N N' - diethyl, 1219⁷
- Malonamide N, N' - ducamyl 1210⁸
- C₁₁H₁₉O₂ Compd m 99-100¹, from di Ma carboxylic acid and Me₃SiI 2938²
- C₁₁H₁₉ClN₂ Lupanonyltrimethylammonium chloride 960³
- C₁₁H₁₉N Heptylamine N cyclohexyl and HCl, 1609⁴
- C₁₁H₁₉N₂O Lauric acid, α amino-, Me ester, 4830⁵
- C₁₁H₁₉N₂O 3 Cyclohexanesulfonamide, N heptyl, 1812⁶
- C₁₁H₁₉N₂O Lysine N⁴-leucyl N⁶ methyl, 2974⁷
- C₁₁H₁₉O 5-Nonanol, 5-butyl 2113⁸
- C₁₁H₁₉O₂ 2 Propanol, 1 3 dimethoxy 916⁹
- C₁₁H₁₉AsCdI₂ Tributylmethylammonium iodide, CdI₂ deriv, 1485¹
- Tributylmethylammonium iodide, CdI₂ deriv 1485²
- C₁₁H₁₉AsHgI₂ Tributylmethylammonium iodide, HgI₂ deriv, 1485³
- Tributylmethylammonium iodide, HgI₂ deriv, 1485⁴
- C₁₁H₁₉AsI₂ Tributylmethylammonium iodide 1485⁵
- Tributylmethylammonium iodide, 1485⁶
- C₁₁H₁₉Cl₂N₂O Pt Choline-pyruvic alcohol, chloroplatinate 3315⁷
- C₁₁H₁₉ClN₂O (γ Diethylamino - β methoxy propyl)diethylmethylammonium chloride, 5395⁸
- C₁₁H₁₉IN₂O Choline, iodide, compd with CHI₃, 2824⁹
- C₁₁H₁₉Cl₂N₂O₁₇ (γ - Diethylamino - β - methoxy propyl)diethylmethylammonium chloroplatinate, 5395¹⁰

- Cu₂H₂Cl₄N₂O₃Pt Choline propionylcholine-chloro platinate 3310²
- C₆H₂Cl₂O Anthraquinone tetrachloro 247²
- C₆H₂Cl₂O Anthraquinone trichloro- 364²
- C₆H₂Br₂O₂ Benzene acid *o*-4-bromobenzoyl-benzoyl P 604²
- C₆H₂Br₂O₂ Anthraquinone dibromo-, compds with *in* chlorides 48²
- C₆H₂Br₂O₂ Alizarin 3,4-dibromo- compds with *in* chlorides 48²
- Quinizarin 2,3-dibromo- compds with salts 48²
- C₆H₂ClNO₂S 2,6 *meso* Anthrathiazol 6 one 7-chloro- 5-dioxide P 31²
- C₆H₂ClNO₂ Anthraquinone chlorantrone- 94b 1821 P 471²
- C₆H₂ClNO₂ Benzene acid *o*-(4-chloromtrastro benzoyl) P 604
- C₆H₂Cl₂O Quinizarin dichloro- 3645²
- C₆H₂ClO₂S Anthraquinonesulfonic chloride 5 chloro- 5421²
- C₆H₂ClO₂S Anthraquinonesulfonic acid di chloro- 5,6 salts 5421² 542
- C₆H₂O Anthraquinone diiodo- 2994
- C₆H₂NO Anthraquinone 2,7-dinitro- P 320²
- C₆H₂O₂S 1,2,6 Naphthothiophenedicarboxylic anhydride 516²
- 2,3 Thiophanthenedicarboxylic anhydride 516²
- C₆H₂O₂ Filling acid 2116²
- C₆H₂BrClNO₂ Anthraquinone *meso*bromo-chloro- P 543²
- C₆H₂BrO₂ Phenanthrenequinone 2 bromo-compds with salts 4575²
- C₆H₂BrO Quinizarin 5-bromo- 3645²
- C₆H₂Br₂NO₂ Phthalas 1 one 2,6 di bromo-4 nitro-3-phenyl 472²
- C₆H₂Br₂NO₂ Quindole 3,3,5,7 tetrabromo 1 phenyl 293²
- C₆H₂Br₂NO₂ 1,4 Naphthoquinone 2,3,5,7 tetrabromo-6-diacyltamino 1516²
- C₆H₂ClNO₂ Anthrone 1 and 4) chloro 4,8 and 1,6-d nitro- P 317²
- C₆H₂ClO₂ Anthraquinone chloro- P 4894 compd with 3NCl₃ 45²
- C₆H₂ClO₂ Anthraquinone chlorohydroxy 1742 5421²
- C₆H₂ClO₂ Quinizarin 5-chloro- 3645²
- C₆H₂ClO₂S Anthraquinonesulfonic acid chloro- and salts 5421²
- C₆H₂ClO₂S 1,4,5,8 Naphthalenetetracarboxylic acid 2-chloro- P 4282²
- C₆H₂ClO₂S Anthraquinonesulfonic acid chloro- and salts 5421²
- C₆H₂ClNO₂ Phthalas 1 one, 2,6-dichloro-4 nitro-3 phenyl, 472²
- C₆H₂Cl Anthracene, trichloro-, 5421²
- C₆H₂ClO Anthrone, 3,10,10-trichloro-, 3414²
- C₆H₂ClO₂S Phenanthrenequinone, 1 hydroxy, 50Cl₃ deriv, 1243²
- C₆H₂Cl₂O Benzophenone, 2,5 dichloro 2 trichloromethyl 3414²
- C₆H₂IO Anthraquinone, 1 iodo-, compd with 5NCl₃ 4574²
- C₆H₂NO₂ Phenanthrenequinone, 4 nitro-, 509²
- C₆H₂NO₂S Anthraquinonesulfonic acid, nitro- 94b, 1821, P 4559
- C₆H₂NO₂S 3-Acridonitrile 1 nitro-, 471²
- C₆H₂NO₂ 1,4 - Naphthoquinone 2,6,8
- tribromo 5 hydroxy, pyrobacacetate 312²
- C₆H₂BrNO₂ 3 - Acridinecarboxylic acid, 3-bromo-, 294²
- Pseudocatin, 5-bromo-1 phenyl, 291²
- C₆H₂Br Anthracene, dibromo-, 404²
- C₆H₂BrNO₂ Quindole, 2,5,5 - tribromo 1 phenyl, 293²
- C₆H₂ClNO₂ Anthraquinone aminochloro-, 948², P 1100², 1241², 1242², P 4717², P 4592², 5431²
- C₆H₂ClNO₂ 2,1 *para* Benzooquinoline - 2,3) acetyl chloride, 1,3-diketo-, 3325²
- C₆H₂ClNO₂S 2 Anthraquinonesulfonic acid, 1 amino-4-chloro-, P 715²
- C₆H₂ClO 9-Phenanthryloxy, 10-chloro-, 5153²
- C₆H₂Cl Anthracene, dichloro-, 1252², 2959², 5421²
- C₆H₂ClO Anthrone, 10,10-dichloro-, 5414²
- C₆H₂ClO₂ Benzal *p*-dichloro-, 4256²
- C₆H₂ClO₂S 2 Anthracenesulfonic acid, 9,10-dichloro- 1252² 299²
- C₆H₂ClO₂ Benzal dichlorodihydroxy, 1244²
- C₆H₂NO₂ 2,1 *para* Benzooquinoline - 2,3) acetanilide 1,3-diketo-, 3325²
- C₆H₂NO₂ 5-Acridinecarboxylic acid, 1 nitro-, 4271²
- C₆H₂O₂ See Anthraquinone Phenanthrenequinone
- C₆H₂O₂S 3 - Naphthothiophenol, 6 (carboxymethylmercapto), cyclic lactone, 3341²
- C₆H₂O₂ Acenaphthenequinone 3 acetyl, 1618²
- Anthraquinone hydroxy, 364²
- Phenanthrenequinone 1 hydroxy, 1242², 3337²
- C₆H₂O₂ (See also Alizarin)
- Anthraquinone dihydroxy, P 126²
- Morphoquinone 3994²
- 1,2,6,8 Naphthopyran 3 carboxylic acid, 2 keto- 2146²
- Phenanthrenequinone, 2,4 - dihydroxy, 1244²
- Quinizarin 2140² 5431²
- C₆H₂O₂S 1,2,9 Naphthothiophenedicarboxylic acid 516²
- 2,3 Thiophanthenedicarboxylic acid, 5165²
- C₆H₂O₂ Purpura, P 1339²
- C₆H₂O₂S Anthraquinonesulfonic acid, and salts, 4259²
- C₆H₂O₂ Anthraquinone, 2,3,6,7 tetrahydroxy, 934²
- C₆H₂O₂ 1,4,5,8 Naphthalenetetracarboxylic acid, P 3669², P 4282², P 4717², P 5477²
- C₆H₂O₂S Anthraquinonesulfonic acid, and salts, 4259²
- C₆H₂AsCl₂NO₂ Phenanthrene, 1,6-dihydro-1 hydroxy-, trichloroacetate, 110²
- C₆H₂Br Anthracene, 9-bromo-, 5²
- C₆H₂BrO₂ Thioanthone, bromohydroxy methoxy, 2724², 2725²
- C₆H₂BrO₂S Thioanthone, 4 bromo-1 hydroxy 2 methoxy, 10-dioxide 2725²
- C₆H₂BrNO₂ Quindole dibromo-1 phenyl, 293²
- C₆H₂BrNO₂ Phenol, 2,6 dibromo-4 *para* oxybenzamide-, 285²
- C₆H₂BrNO₂ Phthalas 1 one 2,6 - dibromo-4 amino-3-phenyl 4723²
- C₆H₂BrO₂ Naphthalene 1,6, tr bromo-, acetate 512² 940²
- C₆H₂ClO₂ Benzene acid *o*-(3 chloro 4 by trioxylenzoyl) 5421²

- C₁₄H₁₁ClNO Oxandole, 3,2 dichloro-1 phenyl, 293¹
Phthalimide, 2 - (2,6 dichlorophenyl) 4273¹
C₁₄H₁₁Cl₂N₂O Phthalimide - 1-one 2,6 dichloro-4'-amino-3 phenyl, 4273¹
C₁₄H₁₁Cl₂N₂O₂ Acetamide, 5 chloro - 2 - (4 chloro 2(2) - nitrophenyl) 4 - nitro-2705¹
C₁₄H₁₁Cl₂N₂O₂ *p* - Benamide, 2,2',3',6 tetrachloro-, 6153¹
C₁₄H₁₁NO₃ 5-Acridinecarboxylic acid, *Na salt* 294¹
Anthraquinone, amino-, 4877¹ *compd with* SnCl₄, 4874¹
1 thalimide, *N* phenyl 2418¹
1 pseudonitro, 1 phenyl, 294¹
C₁₄H₁₁NO₃S Anthraquinone 1 amino 2 mercapto-, 2722¹
2(1) Thionaphthene, 1 (*p* hydroxy phenylimino), 5165¹
C₁₄H₁₁NO₃ Anthraquinone, amino-hydroxy *P* 2005¹
Benzofuran, 4-*ortho*-1 phenyl 4653¹
C₁₄H₁₁NO₃ 2(1) - *para* Benzoquinone 2 (3) nitro acid, 1,3 diketone, 3325¹
Quinazolin, 3-amino-, 3618¹
C₁₄H₁₁NO₃S Anthraquinonesulfonic acid, amino-1821¹, *P* 5178¹ *Na salt*, 5421¹, 4
C₁₄H₁₁NO₃ 2,7 Carbazolecarboxylic acid, 1,8-dihydroxy, *P* 666¹
C₁₄H₁₁NO₃S Benzotriazole, 5 nitro 2 *p* sulfolobenzo-, 1821¹, *P* 4717¹
C₁₄H₁₁NO₃S Anthraquinonesulfonic acid amino-, *Na salt*, 5421¹, 4
C₁₄H₁₁N₂O₃ 5-Acridinecarboxamide, 1 nitro-*acid sulfate*, 4717¹
C₁₄H₁₁N₂S Diphenylamine, *p p*-dithiocyanate-*P* 1268¹
C₁₄H₁₁N₂O₃ Ethanol 1 (2,4 dinitrophenyl) 2 (2,4,6-trinitrophenyl) 508¹
C₁₄H₁₁O₃ 9 Phenanthrolyl, 5153¹
C₁₄H₁₁ (See also *Anthracene Phenanthrene*)
Fluorene 9 methylene 942¹
Toluene 5887¹, 4266¹, 5830¹
C₁₄H₁₁As₂N₂O₃ 2 Benzoindazole-sulfonic acid 5,6 azulenyl- 703¹
C₁₄H₁₁BrClO Acetophenone *o* bromo *o* chloro-*m* phenyl, 491¹
C₁₄H₁₁BrNO Oxandole bromo 1 phenyl, 293¹, 4
C₁₄H₁₁BrNO, *Δ*^{1,2} Cyclohexadienone, 2 benzoyl 6 bromo 4 methyl 4 nitro-, 3634¹
C₁₄H₁₁BrNO₂ Naphthalene acid, 4 bromo-5-nitro-*di Me ester* 1518¹
C₁₄H₁₁Br₂ Fluorene 9 bromo 9 (bromo-methyl) 611¹
C₁₄H₁₁Br₂N₂O₂ Acetamide, 2 bromo 4 (*p* bromophenyl)-6-nitro- 5673¹
C₁₄H₁₁Br₂O₂ Naphthalene 1,5 - bis(bromo-acetyl), 5167¹
C₁₄H₁₁Br₂O₂ Naphthalenediol dibromo-*di acetate*, 512¹, 945¹
C₁₄H₁₁CaO₂ Calcium benzoate, *P* 1537¹
Salicylaldehyde, *Ca salt*, 2131¹
C₁₄H₁₁ClHgMoN₃S₃, 3587¹
C₁₄H₁₁ClNO Anthrone, 3 amino-2-chloro, *P* 5041¹
C₁₄H₁₁ClNO₂ Oxamyl chloride, *N,N*-diphenyl-, 294¹
C₁₄H₁₁ClN₂O₂ Benzamide, 4 - chloro *N* methyl-3,5-dinitro- *P* 1100¹
C₁₄H₁₁ClN₂O₂ Acetamide, 2 (chloronitrophenyl)-4 nitro-, 2705¹
C₁₄H₁₁Cl₂ Ethylene, 1,1 bis(*p*-chlorophenyl), 4239¹
C₁₄H₁₁Cl₂N₂O Phthalimide, 2 (4 amino 2,6 dichlorophenyl), 4273¹
C₁₄H₁₁Cl₂N₂O₂ Acetamide, 5-chloro-2 (*p* chlorophenyl)-4 nitro-, 2705¹
C₁₄H₁₁ClO Benzophenone, dichloromethyl 3414¹, 4
C₁₄H₁₁ClO₂ Acetyl chloride *α,α* (1-*naphthyl*)methylthio-*bis* 3341¹
C₁₄H₁₁ClNO Acetamide *m* trichloro *N,N*-*di* phenyl 293¹
o-Benzotriazole, 3,5,6 trichloro-, 1501¹
C₁₄H₁₁ClO₂ Glutamic acid *m* chloro *γ,γ* dihydroxy - *β* methoxy, *γ* lactone (3,4,5 trichloro 2,6 dimethoxy phenyl) ester, 1229¹
C₁₄H₁₁F₂O₂ *m* Toluene-sulfonic acid, 5 (diphenylsulfonyl) - 2(acid 4) hydroxy hemol cyclic sulfonyl 284¹
C₁₄H₁₁N₂O₂ Benzothiazole 5-iodo-1-methyl amino-*picrate* 4581¹
C₁₄H₁₁N₂O₂ Benzothiazole 1-imino-5-iodo 2-methyl, *picrate*, 4881¹
C₁₄H₁₁MgO₂ + 21H₂O Salicylaldehyde *Mg salt* 2131¹
C₁₄H₁₁N₂ *o*-Benzoyl-1,3-benzimidazole, 702¹
Pseudoindolebenzimidazole, 702¹
C₁₄H₁₁N₂O₂ Furan, 3,4-diphenyl 956¹, 3337¹
Oxazole diphenyl 3338¹, 4
4(3) Quinoxaline, 3 phenyl, 2037¹
C₁₄H₁₁N₂O₂ 2,4,1 Benzothiazine 1 *noa* 3 amino-, 3002¹
2,4(1,3) Quinoxalinedione 3 phenyl 2 thio- 3001¹
C₁₄H₁₁N₂O₂ Anthraquinone diammonium *acid salt*, *P* 3672¹, 4
1,2,3,6 - Dioxidiazot 4,5 diphenyl 956¹
Pseudonitro 1 phenyl, oxime, 294¹
C₁₄H₁₁N₂O₂ Acenaphthenequinone 2 acetyl dioxime 1418¹
2,1 *para* Benzoquinoline 2(3) acetamide, 1,3-diketo-, 3325¹
C₁₄H₁₁N₂O₂ 8(4) Isoxazolone, 4 benzamido-3 (2-*uryl*), 2143¹
2,5-Piperazinedione, 3,6-difuryl, 1508¹
Quinoxaline 5,8-diamino-, 3648¹
C₁₄H₁₁N₂O₂ Cresol, 3,6-dinitrobenzoate, 2982¹
Δ^{1,2} - Cyclohexadienone, 2 - benzoyl - 4 methyl 4,6-dinitro-, 3634¹
Salicylic acid *asobis*, *di Na salt*, *P* 1684¹
C₁₄H₁₁N₂O₂ Guaiacol 3,6 dinitrobenzoate 2982¹
C₁₄H₁₁N₂O₂ Benzothiazole, 3 - amino 1 - (2,4 dinitrophenyl) 4 methyl, 1250¹
C₁₄H₁₁N₂O₂ Piperonal 2,4 - dinitrophenyl hydrate, 3320¹
C₁₄H₁₁N₂O₂ Acetophenone, *p* - (2,4,6 - trinitro-amino), 4432¹
C₁₄H₁₁N₂O₂ Eubenzyl, 2,2',4,4' tetranitro-, 509¹
C₁₄H₁₁N₂O₂ *o,o'* Diamide, 4,4',6,6' tetra nitro- 3157¹
C₁₄H₁₁N₂S Benzenesulfonamide, 2,2' - dithio-, *and HCl*, 703¹
C₁₄H₁₁O Anthrol, 603¹, 5897¹
Phenanthrol, 603¹
C₁₄H₁₁O₂ (See also *Benzal*)
9,10-Anthradol, 5897¹
Anthraquinone, 1,4 dihydro-, *P* 955¹

- Anthrone hydroxy 5131
 Δ Cyclohexad enone, 4,4'-acetylenic, 502²
 1,1-oxenecarboxylic acid 5416¹
 1,4-*n*-Naphthopyrone 2-methyl, 4267¹
 Phenanthrenediol 5031, 1241¹
 C₁₄H₁₀O₅ Thioanthone, hydroxymethyl, 517¹
 C₁₄H₁₀O₅ Benzoyl disulfide 503¹
 C₁₄H₁₀O₅ See also Benzene anhydride)
 2,6-*n*-Anthracenol, 1519¹
 Benzoic acid *o*-benzoyl, 506¹
 Fluorene-carboxylic acid, 2-hydroxy, P 5177¹
 Naphthofuranol acetate 3339¹
 C₁₄H₁₀O₅ 3-*n*-Naphthoquinol, 8-(carboxy methyl)mercapto 3341¹
 C₁₄H₁₀O₅ (See also Benzoyl peroxide)
 Benzil dihydroxy, 1243¹ 3991¹
 Diphenic acid 940¹ 4254¹
 Oxalic acid di Ph ester 3625¹
 C₁₄H₁₀O₅ 9,10-*n*-Anthradol, acid sulfate, P 604
 Naphthalene-glyoxylic acid (carboxymethyl mercapto), 5165¹
 C₁₄H₁₀O₅ Benzene acid, 4-hydroxy 3,4'-oxybis-, 950¹ 2731¹
 Des *n*-dermethylnitrobenzocarboxylic acid 2731¹
 C₁₄H₁₀O₅ Benzoic acid *o*-(*p*-sulfobenzoyl), P 215¹ P 2735¹ P 4555¹
 C₁₄H₁₀O₅ Salicylic acid, 3,5-sulfaylthio 2127¹
 C₁₄H₁₀F₁₀N₁₀ 5 Nitro 4,4'-bis toluene-diazonium boroduoide 4233¹
 C₁₄H₁₀Br Ithylene 1 (*o*-bromophenyl) 1-phenyl 4239¹
 Fluorene 9-bromo-9-methyl 511¹
 C₁₄H₁₀BrCl₁₀N₁₀ Vanillin dichloro-, *p*-bromophenylhydrazon 94¹
 C₁₄H₁₀BrN₁₀O₁₀ Phthalimide 2 (4-amino 2-bromophenyl) 4273¹
 C₁₄H₁₀BrN₁₀O₁₀ Acetamide, 2-bromo 6-*n*-nitro-4-phenyl 5672¹
 C₁₄H₁₀BrN₁₀O₁₀ Acetamide 2 (*p*-bromophenyl)-4-nitro-, 2765¹
 C₁₄H₁₀BrN₁₀S Benzothiazole, 1 *p*-bromosulfon-5-methyl, 104¹
 Benzothiazole 1 (*p*-bromo *n*-methyl amino), 104¹
 C₁₄H₁₀BrO₁₀ Benzophenone 3-bromo 2-hydroxy 5-methyl 3634¹
 C₁₄H₁₀BrO₁₀S Acetic acid, 4-bromo-1-*n*-acetylthylmercapto, 5420¹
 C₁₄H₁₀BrO₁₀ Quinol, 2-benzoyl-5-bromo 4-methyl, 3634¹
 C₁₄H₁₀BrO₁₀ 1,2-Naphthalenediol, 3-bromo-diacetate 94¹
 C₁₄H₁₀BrN₁₀O₁₀S Benzotoluide, 4',5'-dibromo-466¹
 C₁₄H₁₀BrN₁₀O₁₀ Diphenylamine, 2,5-dibromo 4-ethoxy 2,4-dinitro-, 286¹
 C₁₄H₁₀Cl Ithylene 1-1 (chlorophenyl) 1-phenyl, 4239¹, 4239¹
 C₁₄H₁₀ClN₁₀O₁₀ Acetamide, 2 (chlorophenyl)-4-nitro-, 2704¹
 C₁₄H₁₀ClO₁₀ Acetophenone, *p*-chloro-*n*-phenyl, 1524¹
 Acetophenone *n*-(*p*-chlorophenyl), 1-24¹
 Benzophenone, 2-chloro-5-methyl, 5414¹
 C₁₄H₁₀ClO₁₀ Benzophenone, *p*-chloro-*p*-methoxy, 4,3,3¹
 C₁₄H₁₀ClO₁₀ Acetophenone *n*-(*o*-diphenoxy), dichloride, 1504¹, 4244¹
 C₁₄H₁₀Cl₁₀NO Acetamide, *n*, *n*-dichloro-*n*, *n*-diphenyl, 293¹
p-Benzotoluide, 2',5'-dichloro-, 1501¹
 C₁₄H₁₀Cl₁₀NO Acetamide, 5-chloro-2 (*o*-chlorophenyl), 2703¹
 C₁₄H₁₀Cl₁₀O₁₀ Ethylenephosphonic acid, 2,2-bis(*p*-chlorophenyl), 4239¹
 C₁₄H₁₀Cl₁₀O₁₀ *p*-Cresol, 2-chloro 6-(2,6-dichloro-*p*-tolyl), 5658¹
 C₁₄H₁₀Cl₁₀O₁₀ 2351¹
 C₁₄H₁₀Et Ethylene, 2-fluoro-1,1-diphenyl, 3642¹
 Ethylene, 1-(*o*-fluorophenyl)-1-phenyl, 4238¹
 C₁₄H₁₀F₁₀N₁₀ *n*, *n*'-Bis(olyl), 4,4'-difluoro-6-nitro-, 4253¹
 C₁₄H₁₀F₁₀O₁₀ Acetophenone, *n*-(*o*-diphenoxy), 1501¹, 4243¹
 C₁₄H₁₀I₁₀ 3 Iodo 4-methyl-5,6-benzotoluenequinoxaline iodide, 4269¹
 C₁₄H₁₀I₁₀O₁₀ 2380¹
 C₁₄H₁₀Mo₁₀N₁₀O₁₀S₁₀ 3581¹
 C₁₄H₁₀Mo₁₀N₁₀O₁₀S₁₀ 3587¹
 C₁₄H₁₀Mo₁₀N₁₀S₁₀ + 6H₂O, 3587¹
 C₁₄H₁₀N₁₀ Acridone, 3-methyl, P 2659¹
 2-Acridanone, 947¹
 C₁₄H₁₀NO 5-*n*-Benzotoluide-3(4)-*n*-oxo-, 4-methyl, 4269¹
 1 *n*-Naphthoquinone, 3-imino 6(*o*-7)-methyl, P 4556¹
 C₁₄H₁₀NO₁₀ 5-Acridanocarboxylic acid, 297¹
 Benzil, oxime 290¹
 Sulfoxide, *p*-nitro-, 4456¹
 C₁₄H₁₀NO₁₀ Acetophenone, *n*-(*p*-nitrophenyl), 1524¹
 Isocid acid *n*-phenyl, *n*-allyl, 294¹
 Oxamic acid, *N*, *N*-diphenyl, 294¹
 C₁₄H₁₀NO₁₀S Acetophenone, *p*-(*p*-nitrophenyl)mercapto, 2127¹
 Benzosulfonamide, 1-benzoyl-1,2-di-hydro-, 925¹
 C₁₄H₁₀NO₁₀ Acetophenone, *p*-(*p*-nitrophenyl), 2705¹
 Acetophenone, *n*-(5-nitrophenyl), 4853¹
 Alizarin, compd with *n*-H₂, 4261¹
 Benzoic acid, *p*-(*o*-hydroxybenzamide), P 3670¹
n-*n*-nitro-, benzyl ester, 924¹
n-(*o*-*n*-nitro-*n*-tolyl), 505¹
 Benzyl alcohol, nitro-, benzoate 92¹
 2-Furanacrylic acid, *n*-benzamide-, 1508¹, 2142¹
 C₁₄H₁₀NO₁₀S Benzoic acid, 5-amino-2 *p*-sulfobenzoyl, P 4717¹
 C₁₄H₁₀N₁₀ Quinoxaline, 4-amino-, and -HCl, 5699¹
 1,2,4-Triazol-3-ol, 1,5-diphenyl, 4614¹
 C₁₄H₁₀N₁₀O₁₀S Benzotoluide-1,3,6-triazadiazepin 2(1)-one, 4-amino-, 4266¹
 C₁₄H₁₀N₁₀O₁₀ 2,2,2,2-Tetrakis-, 1-(*p*-nitrophenyl)-3-phenyl, 4879¹
 C₁₄H₁₀N₁₀O₁₀S Benzothiazole, 5-amino 4-methyl 1 (nitrophenyl), 1250¹
 Benzothiazole, 5-methyl-1-*p*-*n*-nitro-amino-, 104¹
 C₁₄H₁₀N₁₀O₁₀ Compd, decomps 200°, from 2,6-dibromo *n*-tetrahydrophthalic anhydride and Ph₂N₂, 1807¹
 C₁₄H₁₀N₁₀O₁₀ Acetamide, 4-nitro 2-(*p*-nitrophenyl), 2704¹
 C₁₄H₁₀N₁₀O₁₀S Benzenesulfonic acid, nitro-, piper-oxylidenecarboxylic acid, 2702¹
 C₁₄H₁₀N₁₀O₁₀ Oxadiazole, 3-amino-, picrate, 1524¹

- C₁₁H₁₀NaO Etbecol, 2,2-diphenyl, Na deriv, 4254¹.
- C₁₁H₁₀O₂ Bb, 2380²
- C₁₁H₁₀ (See also Stilbene)
- Ethylene, diphenyl 923¹, 5530¹
- Isostilbene, 4239¹, 5403¹
- C₁₁H₁₀As₂N₂O₅ 5 - Benzimidazolearsonic acid 2,2'-dithiohis-, III, 703¹
- C₁₁H₁₀Br₂N₂ 4,4' - Bi[*n* - toluenediazomium borofluoride], 4233¹
- C₁₁H₁₀BrClN₂O₂ Vanillin, chloro-, *p* bromo-phenylhydrazine, 94¹
- C₁₁H₁₀BrN Benzylamine, *N* benzal *p* bromo-, 4243¹
- Benzylamine, *N* *p*-bromobenzal 4243²
- C₁₁H₁₀BrNO₂ *p*, *p*' - Bitolyl, 2 bromo 2 nitro-, 2425¹
- C₁₁H₁₀BrNO₂ 1 - Naphthol, 2 - amino 4 bromo-, di Ac deriv, 913¹
- C₁₁H₁₀BrNO₂ Butylphenone, *p* bromo *p* 2 furyl-*γ* nitro-, 306¹
- C₁₁H₁₀BrNO₂ Indoxyl acid 1 acetyl 6 bromo-Meester, acetate, 1322¹
- C₁₁H₁₀Br₂ Bibenzyl *p*, *p*' dibromo- 3416¹
- C₁₁H₁₀Br₂N₂O₂ *p*-Phenelidine; dibromo-, picrate, 258¹, 1517¹
- C₁₁H₁₀Br₂O₂ Isodurene, 4,6 bis(tribromoacetyl) 5404¹
- C₁₁H₁₀ClN Benzylamine, *N* benzal *p*-chloro- 4243¹
- Benzylamine, *N* *p*-chlorobenzal 4243²
- C₁₁H₁₀ClNO Acetamide, chlorophenyl 1660¹
- Acetamide, *o*-(*p*-chlorophenyl) 4860¹
- C₁₁H₁₀ClNO₂ Acetamide, *o*-(chlorophenyl) 2703¹
- Anthranic acid, *N* (5-chloro-*o*-tolyl), 2146¹
- p* *p*' Bitolyl 2-chloro-2 nitro-, 2425¹
- C₁₁H₁₀ClNO₂ Diphenylaminocarboxylic acid, 3 hydroxymethyl-4-chloro- P 4263¹
- C₁₁H₁₀ClNO₂ 2 Naphthol, 3-chloro-4 (chloroacetamidomethyl)hydrazine, 5399¹, 5400¹
- C₁₁H₁₀ClO₂P Ethylphenosphonic acid, 2 (chlorophenyl) 2 phenyl and salts 4239¹
- C₁₁H₁₀ClO₂P Dihomocatechylphosphorus chloride 501¹
- C₁₁H₁₀Cl₂ Bibenzyl, *α*, *α*' dichloro-, 4526¹
- C₁₁H₁₀Cl₂O Benzohydrol, *α* (dichloromethyl), 2112¹
- Benzohydrol, *p* *p*' dichloro-*α*-methyl 4239¹
- C₁₁H₁₀Cl₃O₂ Isodurene, 4,6 bis(trichloroacetyl) 5404¹
- C₁₁H₁₀CoN₂O₂ Salicylaldehyde oxime, Co deriv, 1500¹
- C₁₁H₁₀F₂O₂P Ethylphenosphonic acid, 2 (*o*-fluorophenyl) 2 phenyl, 4239¹
- C₁₁H₁₀F₂ *m*, *m* Bitolyl, 4,4' difluoro-, 4233¹
- Ethane, 1,2-difluoro-1,1 diphenyl, 3612¹
- C₁₁H₁₀F₂O₂ 3,3' - Bi - *p* - toluenesulfonyl fluoride, 283¹
- C₁₁H₁₀F₂O₂ 3,3' - Bibenzene-sulfonyl fluoride 4,4'-dimethoxy-, 283¹
- C₁₁H₁₀HgO₂S Benzene acid, *o*-(benzylmercaptomer capto), 1821¹, 4907¹
- C₁₁H₁₀IN Benzylamine, *N* benzal *p*-iodo-, 4243¹
- Benzylamine, *N* *p*-iodobenzal 4243²
- C₁₁H₁₀INO₂ Acetamide, *o*-(*p*-iodophenyl), 2705¹
- p* *p*' Bitolyl, 2 iodo-2 nitro-, 2425¹
- C₁₁H₁₀N₂ Acridine, 5 amino-3 methyl, P 1950¹
- Δ¹,2 Diazine, 1,3-diphenyl, 4876¹
- 9-10-Phenanthrylenediamine, 3343¹
- C₁₁H₁₀N₂NO₂ *o*-Cresol, *α* amino-, Na salt, 2131¹
- C₁₁H₁₀N₂NO₂ Salicylaldehyde, oxime Ni, deriv, 1508¹
- C₁₁H₁₀N₂O Benzyl alcohol, *o*-2 benzimidamyl 702¹
- Nicotinonitrile, 1,2 dihydro 2 keto 1 6 dimethyl-4 phenyl, 2145¹
- , 1,2 dihydro 2 -ketomethyl *p* tolyl 4851¹, 4852¹
- 6 ethyl 1 2 dihydro 2 keto 4 phenyl, 2145¹
- C₁₁H₁₀N₂O₂ Acetic acid, (4 keto Δ²,8 cyclo heptyliden)phenylhydrazide 5151¹
- Glyoxime, diphenyl 261¹, 1459¹
- Oxamide 1604¹
- Phenol *p* phenylazo- acetate 5151¹
- Δ-toluidine V *m* nitrobenzal 1230¹
- C₁₁H₁₀N₂O₂S Anthranic acid V (phenylthio carbonyl) 3001¹
- C₁₁H₁₀N₂O₂S 4 Bi *m* cresol, dithionitrile 3618¹
- C₁₁H₁₀N₂O₂Zn + 11.0 *o*-Cresol *α*-amino-, 7 *u* salt 2131¹
- C₁₁H₁₀N₂O₂ Acetamide 2 nitro-4 phenyl 5673¹
- 5 Acridinecarboxamide, 5 10 dihydro 5 10 dihydroxy 4271¹
- Anthranic acid V (pyridylcarbonyl), Me ester 3000¹
- Benzene acid *p* (*p* aminobenzamide) 491¹
- Benzophenone *p* nitro-, oxime, Me ether, 5673¹
- Pyruvic acid, 2 fusil phenylhydrazine 4851¹
- C₁₁H₁₀N₂O₂ Acetamide, nitrophenoyl 1816¹
- 2705¹
- Bibenzyl, *p* *p*-dimitro- 508¹
- p* *p*' Bitolyl 2,2-dinitro- 2425¹
- C₁₁H₁₀N₂O₂S 1(2) 2 Bibenzene-sulfonamide 1,2-dihydro 928¹
- Disulfide bis(*o*-nitrobenzyl) 2126¹
- C₁₁H₁₀N₂O₂S *p* Toluene-sulfonamide 2 formyl 4' nitro-, P 964¹
- C₁₁H₁₀N₂O₂S *p* *p*' Diamide 2,2-dinitro- 4873¹
- C₁₁H₁₀N₂O₂S Ethane, 2 bis(nitrophenyl sulfonyl), and hydrochlorides 539¹
- C₁₁H₁₀N₂O₂S Ethane, 2 bis(nitrophenyl sulfonyl), 5392¹
- C₁₁H₁₀N₂S Benzothiazole, 1 amino 5 methyl 104¹
- Benzothiazole, 1 *N* methylamino-, 104¹
- , 1 *p* tolueno-, 104¹
- C₁₁H₁₀N₂S₂ Benzamide, A, N¹ thioisothio- 4554¹
- C₁₁H₁₀N₂O₂ Furazan, 3,4-diamino 2999¹
- C₁₁H₁₀N₂O₂ 2,3 - Quinoxalinedinitrile 1,4 diacetyl 1,2,3,4 tetrahydro- 957¹
- C₁₁H₁₀N₂O₂ Acetophenone, 2 4-dinitrophenyl hydrazine, 2132¹
- Tolaldehyde, 2 4 - dinitrophenyl hydrazine 3320¹
- C₁₁H₁₀N₂O₂ Amsaldehyde 2 4 dinitrophenyl hydrazine 3320¹
- C₁₁H₁₀N₂S 1 2 3 Benzotriazole - 1 - carbonyl-*o*-toluene thio-, 4268¹
- 1 3,4 Triazole 2-mercaptan, 5 amino 1 phenyl, 1501¹
- C₁₁H₁₀N₂O₂ Ethanone, 1 (*p* - nitrophenylazo), *p* nitrophenylhydrazine, 932¹
- Glyoxal *p*-nitrophenylsulfonate, 932¹
- C₁₁H₁₀O Benzophenone, *o*-methyl, 5414¹
- Compd, *α* 95%, from reduction of BrH₂, 4544¹
- Desoxybenzoin, 1524¹, 5641¹
- Dibenzofuran 2,7 dimethyl, 2425¹

- Ethylene oxide α β -diphenyl 239^o
 Ketone, 3 acenaphthenyl methyl, 1018^o
 1- α -Naphthindanone 5-methyl P 1260^o
 C, H, O: See also Benzene)
 Acetophenone β hydroxy- α phenyl 1524^o
 — α (β hydroxyphenyl), 1524^o
 9 10-Anthranel, 1,4-dihydro-, P 985^o
 Anthraquinone 1,4,5,8 tetrahydro- P 2442^o
 Benzoic acid, benzyl ester 2039^o 3311^o
 3 2 Butenone, 4 (3 hydroxy 2 naphthyl) 2145^o
 4 3 β Naphthopyrone tetrahydro- 9-hydroxy 1 methyl- 5247^o
 β β -Stilbeneol, 302^o, 503^o
 C₁₅H₁₀O₃ Acetic acid, (1 acenaphthene-mercaptan), 5419^o
 C₁₅H₁₀O₃ Anthraquinone, 1,2,3,4-tetrahydro-5-hydroxy 3993^o
 Benzoic acid 2143^o, 3663^o
 α -Toluidic acid, α salicyl, 412^o
 C₁₅H₁₀O₃ Hydrobenzoin sulfite, 8964^o
 C₁₅H₁₀O₃ Acetophenone, 2,4 dihydroxy- α (β hydroxyphenyl) 5673^o
 1 7 Naphthalenedicarboxylic acid, di Me ester 298^o
 Quinazolin 5,6,7,8-tetrahydro- 5419^o
 C₁₅H₁₀O₃ Acetic acid, α (β 5 naphthylene dithiol)bis- add to K salt 3341^o
 C₁₅H₁₀O₃ Acetic acid, (1 carbonylmethylmercaptan) 2 naphthoxy 3330^o
 Benzoic acid 2 methoxy 5-(phenylsulfonyl) 2127^o
 1 Phenol 4 sulfonic acid Me ester, benzoate 3323^o
 C₁₅H₁₀N₂O₃ Anisaldehyde 3 bromo- 2 hydroxy phenylhydrazones, 287^o
 C₁₅H₁₀N₂O₃ Carbamide, bromomethylthio- 1041^o
 Pseudoresorcin, α (β bromophenyl) γ methyl β -phenylthio-, 104^o
 C₁₅H₁₀N₂O₃ Benzaldehyde, α bromo-, 4 ambrosiacarbazone, 2634^o
 C₁₅H₁₀N₂O₃ Ether, benzyl 2 bromo- β -tolyl 1635^o
 Xylenol bromophenyl, 93^o 3635^o
 C₁₅H₁₀N₂O₃ Acenaphthene-sulfonic acid isomer, Et ester 1518^o
 C₁₅H₁₀N₂O₃ Naphthalene 2,4,6 tribromo 1 sulfonate, 512^o
 C₁₅H₁₀N₂O₃ 1-benzyl β phenylazo, compd with AcCl 3321^o
 C₁₅H₁₀N₂O₃ Benzaldehyde, chloro-, 4-ambrosiacarbazone, 3634^o
 C₁₅H₁₀N₂O₃ Pyridine, 6 chloro 2,3,4 tri methyl, picate 3635^o
 C₁₅H₁₀N₂O₃ Benzylamine β -noro- N methyl picate, 925^o 926^o
 C₁₅H₁₀N₂O₃ Benzylalcohol, α Guoia α methyl 4239^o
 C₁₅H₁₀N₂O₃ Sulfide benzyl β -noro- N methyl, 926^o
 C₁₅H₁₀N₂O₃ Acetic acid (β iodophenyl)phenylhydrazide, 1277^o
 C₁₅H₁₀N₂O₃ Acetic acid, 10-methyl, 2975^o
 9-Fluorolamine, γ methyl, 511^o
 C₁₅H₁₀N₂O₃ Acenaphthene, 1 acetamido-, 2980^o
 Acetamide, β -phenyl, 2732^o
 Acetophenone, α -(β -aminophenyl), 1524^o
 Demoxybenzoin, oxime, 3329^o
 Δ^1 -1-Propenone, 1-(5-methyl-2-pyrrolyl) 3-phenyl, 3008^o
 C₁₅H₁₀N₂O₃ Acetamide β phenoxyl, 1836^o
 Acetamide, β salicyl, 2717^o
 Acetophenone, α -salicyl, oxime, 4882^o
 Amide from capric acid, 258^o
 Anthranic acid, benzyl ester, -HCl, 921^o
 Anthraquinone, 6-amino-1,2,3,4-tetrahydro-, 3993^o
 Benzamide, 2134^o
 Benzene acid, amido-, benzyl ester, -HCl, 921^o
 Benzyl alcohol, amino-, benzoate, add HCl, 924^o
 Cresol α -methylmethoxy- α phenyl, 1231^o
 Piperonylamine, N phenyl, 1817^o
 α -Toluidide, α' hydrazyl, 1818^o
 α -Toluidic acid, α -aminoo-, 293^o
 C₁₅H₁₀N₂O₃ Acetic acid, (2-amino-5-phenylphenylmercaptan), 2999^o
 C₁₅H₁₀N₂O₃ Ethane 1 (β -nitrophenylmercaptan) 2 phenylmercaptan, 5392^o
 C₁₅H₁₀N₂O₃ Carbamide acid, β -(β -toloxyl)phenyl ester, P 2614^o
 Diphenylaminocarboxylic acid, 3 hydroxy methyl-, P 4283^o
 3 Pyrolole, 1 acetyl 5 phenyl, acetate, 1827^o
 α Resorcinamide 4-methyl, 2881^o
 C₁₅H₁₀N₂O₃ Acetophenone, 2,4 dihydroxy α (β -hydroxyphenyl), oxime, 5675^o
 Benzene 1 (and 4) (benzoyloxy) 4 (and 1) methoxy 2 nitro-, 2127^o
 β β' Baunsol, 2 nitro-, 4873^o
 Butylphenone, β 2 luryl- γ nitro-, 5061^o
 Fum[2,3,6]quinoline, 4,7,8 trimethoxy, 298^o
 Isoskimmamine, 295^o
 3 Pyrololecarboxylic acid 1-(carboxyphenyl) 2,5-dimethyl, 9411^o, 5410^o
 Scleramine, 2081^o
 C₁₅H₁₀N₂O₃ Ethane, 1 (β -nitrophenylsulfonyl) 2-(phenylsulfonyl), 5392^o
 C₁₅H₁₀N₂O₃ Ethane, 1 (β -nitrophenylsulfonyl) 2-(phenylsulfonyl), 5392^o
 C₁₅H₁₀N₂O₃ Pyrolole[2,3,6]pyridazine 4(5) one 2,7-dimethyl 5-phenyl, 3008^o
 C₁₅H₁₀N₂O₃ Carbamide, β lorylthio-, oxime 3323^o
 C₁₅H₁₀N₂O₃ Acetophenone, β -nitrophenylhydrazine, 2132^o
 Benzophenone, β hydroxy, semicarbazone, 689^o
 β Tolaldehyde β nitrophenylhydrazine, 4243^o
 C₁₅H₁₀N₂O₃ Carbamide β methyl β nitrothio-, 1041^o
 C₁₅H₁₀N₂O₃ Anisaldehyde, β nitrophenylhydrazine, 4243^o
 2 Naphthaldehyde 3 hydroxy acetate, semicarbazone, 2461^o
 C₁₅H₁₀N₂O₃ Anisaldehyde, 2 hydroxy β nitrophenylhydrazine, 1507^o
 Benzaldehyde, 4 hydroxy 2 methoxy, β -nitrophenylhydrazine, 1507^o
 Phenethylamine, γ (2,4-dinitrophenyl), 8465^o
 2,5-Pyrololecarboxylic acid, 3-(β -decaamoyl) 4 methyl, Et Me ester, 962^o
 C₁₅H₁₀N₂O₃ Xylenol, 4 (2,4-dinitroanilino), 930^o, 2424^o
 C₁₅H₁₀N₂O₃ Benzene, ethyl, picate, 1815^o
 Xylene, picate 1815^o
 C₁₅H₁₀N₂O₃ 2,5-Xylenol picate 2813^o
 C₁₅H₁₀N₂O₃ Benzothiazole, 5-amino 1 (aminophenyl)-4 methyl 1250^o

- C₁₄H₁₁O₄ Umbel ferone 3 ethyl 4 methyl, acetate 4251 4865^a
- C₁₄H₁₁O₄ An ole *p p* sulfonilthio 2127^a
o-Cresol 4 4 sulfonilthio 2127^a
- C₁₄H₁₁O₄ Chioneone 3 acetyldimethoxy - 2 methyl 4250^a 5671^a
Compd in 910° from α, γ-dimethylglutamic acid and AcCl 2690^a
- C₁₄H₁₁O₄ Pyromellitic acid tetra-Me ester, 1822^a
- C₁₄H₁₁O₄ 3 *p* Tofyl sulfide 1828^a
- C₁₄H₁₁O₄ Benzyl disulfide 2128^a
p Tofyl disulfide 1828^a 2128^a 4063^a
- C₁₄H₁₁O₄ Boric acid di *p* amyl, 975^a
- C₁₄H₁₁O₄ BrN₂O Ketone anilinomethyl 4-bromo-3, 4, 6 methyl 2 pyrrol, 3009^a
- C₁₄H₁₁O₄ BrN₂O Cinnamic acid 3 bromo-α-cyano-4-dimethylamino-Ester 1509^a
- C₁₄H₁₁O₄ (2) Pyrimidineacetic acid 3-bromo 3 4 6 tetrahydro - 2 6-diketo-4 phenyl Et ester, 516^a
- C₁₄H₁₁O₄ α α Toluenediol 3 - ethero 6-hydroxy 5-methoxy triacetate 94^a
- C₁₄H₁₁O₄ Dibenzylamine 1810^a *HS* salt, 4215^a
Diphenylamine, *N* ethyl P 522^a
Di *p*-tolylamine 602^a
p Toluene *V* benzyl 1817^a
- C₁₄H₁₁O₄ Benzylamine, *p*-methoxy *N* phenyl, 1817^a
2 Butanol 4 (1 naphthyl)amino 2593^a, 3517^a
^a Butyronaphthone oxime 944^a
^a Cresol 3 *p* tolueno- P 4011^a
Ethanol 2 amino-1 2-diphenyl, 280^a, 1240^a
2 Isobutyronaphthone oxime 944^a
- C₁₄H₁₁O₄ Aniline, 3 (benzylthio)-4-methoxy, 4250^a
9 10 Anthradol 6 amino 1 2 3 4 tetrahydro- and *HCl* 3993^a
3 Pyrrrolecarboxylic acid, 2 3 dimethyl-1-tolyl 5410^a
1 Pyrrrolepropanol, benzoate 1825^a
- C₁₄H₁₁O₄ Benzenesulfonamide, *N* ethyl, 1797^a
- C₁₄H₁₁O₄ Cinchonine acid butoxy, 5245^a
Cinchonine acid, 2 isobutoxy 5245^a
2 Naphthalenecarboxylic acid, 3 methoxy, Et ester 2138^a
- C₁₄H₁₁O₄ Acetic acid (1 amino 4 alkoxy-2 naphthylmercapto) P 1028^a
- C₁₄H₁₁O₄ 1 3 Indolecarboxylic acid, di Et ester, 700^a
1 Pentis 3 of 3 ethyl, *p*-nitrobenzoate, 731^a
- C₁₄H₁₁O₄ Guaiacol, 5 - amino-, *p* - toluenesulfonate 4250^a
- C₁₄H₁₁O₄ Aniline, *N*, *N*-dimethylphenylazo-, 5217^a
Dimethyl yellow, 703^a, 3347^a
- C₁₄H₁₁O₄ 2 Propionaphthene, semicarbazone 944^a
- C₁₄H₁₁O₄ 3 Pyrrrolecarboxylic acid 2-acetyl 5-methyl, phenylhydrazono, 3009^a
Quinic acid isopropylidenehydrazide, 953^a
- C₁₄H₁₁O₄ Benzenesulfonamide *a* formyl *V* methyl, phenylhydrazono 925^a
Benzosulfonamide t 2 dihydro 1 methyl-2 *p* phenylhydrazono 909^a
—, t 2-d hydro 2-(*p*-methyl-*p*-phenylhydrazono) 975^a
—, t 2-d hydro 2 (*p*-tolylhydrazono), 975^a
- C₁₄H₁₁N₂O₃ See *Methyl orange*
- C₁₄H₁₁N₂O₃ Cinnamic acid, α - cyano - 4 - dimethylamino-3 nitro-, Et ester, 1509^a
- C₁₄H₁₁N₂O₃ Burea, 6 - anilino 1 - phenyl-2-thio-, 3634^a
- C₁₄H₁₁N₂O₃ Burea, 1 - anilino-6-phenyl, 3634^a
r - Triazene, 2, 4 - diamino - 6 - benzyl, di Ac deriv, 959^a
—, 2, 4 diamino 5 - *m*(and *p*) - tolyl, di Ac deriv, 958^a, 4
- C₁₄H₁₁N₂O₃ Naphthalene, 2-*tert*-butyl, 944^a
Naphthalene, 6-ethyl 1, 4-dimethyl-, 961^a
- C₁₄H₁₁N₂O₃ Phenarsine, 1 ethyl-1 6 - dihydro-, 1, 1-dihydroxy deriv, 1831^a
- C₁₄H₁₁N₂O₃ Mathanesulfonic acid, 5, 5'-arsenobis(2 hydroxyanilino-, Co salt, P 3775^a
- C₁₄H₁₁N₂O₃ Indican 6-bromo-, 1822^a
- C₁₄H₁₁N₂O₃ Isopyrrole, 4 - bromo - 2 - (5-bromo 3 ethyl-4 methyl 2-pyrrol methylene)-3, 5-dimethyl, -*HBr*, 111^a
Isopyrrole 2 - (3, 5 dibromo 4 - methyl-2-pyrrolmethylene) 4-ethyl-3, 5-dimethyl, -*HBr*, 111^a
- C₁₄H₁₁N₂O₃ Compd, *m* 117^a, from compd *m* 64^a 1225^a
- C₁₄H₁₁Cl₂O₂ Galactal, dichlorotetraacetyl - 2 oxy, 275^a
- C₁₄H₁₁N₂O₂ 2, 9 Pyridindole, 3, 4 - dihydro - 1 isopropyl, 301^a
2, 9 Pyridindole, 3, 4 - dihydro 1-propyl, 300^a
—, 1 ethyl-3, 4 - dihydro - 9 - methyl, 301^a
o-Toluidine, 940^a *formate*, 1810^a
- C₁₄H₁₁N₂O₂ Acetamide *N* - (4 - dimethylamino-1 naphthyl), 1515^a
Ketone, anilinomethyl 3, 5 - dimethyl - 2-pyrrol, 3009^a
2-Pyrrrolecarboxamide, 4 ethyl-3-methyl, 5899^a
- C₁₄H₁₁N₂O₂ Cinchonamide, *N*, *N* - diethyl 6-hydroxy, 954^a
Cinnamic acid, α - cyano-*p*-dimethylamino-Ester, 1803^a
Cyclohexanecarboxylic acid, 2-(2 benzamid azolyl), 701^a
Phthalimide *N* - (α - aminophenyl)hexahydro-, 701^a
1 - Pyrrrolepropanol, *p* - aminobenzoate 1825^a
- C₁₄H₁₁N₂O₂ 3 Tolueneisocyanatide, amino-, 699^a
- C₁₄H₁₁N₂O₂ Barbituric acid, 1, 5 - diethyl - 5-phenyl, P 2735^a
Barbituric acid 1 - methyl - 5 - phenyl - 5-propyl, P 2735^a
o-Toluic acid α-hydroxy, salt with o-phenylenediamine, 702^a
- C₁₄H₁₁N₂O₂ (1, 1' - Bipyrrrole) 3, 3 dicarboxylic acid, 2, 2, 5, 5 tetramethyl, 3640^a
1(2) - Pyrimidineacetic acid, 3, 4, 5, 6 tetrahydro - 2 6 diketo - 4 - phenyl, Et ester, 516^a
- C₁₄H₁₁N₂O₂ 2(1) - Pyrazinone, 3 4 dihydro-1, 4, 6 triethyl-3 phenylazomethyl eno-, and *HCl*, 2431^a
- C₁₄H₁₁N₂O₂ Pyrazole, 5 butoxy - 1 (2, 4 - diisopropenyl)-3 methyl, 1246^a
- C₁₄H₁₁N₂O₂ Picrate, *m* 110-2^a, in compd from *a* pyrrole acid, 4264^a
- C₁₄H₁₁O₂ Cyclohexanol, 1 phenylethanol, 1815^a, Cyclohexanone, 2 benzyl-6-methyl, 4235^a

- Indose, 2-amyl-, 4607²
 2 Naphthol, 4-*tert* butyl, P 974²
 C₁₄H₁₈O₈ 1,3 - Cyclohexanedione, 2 ethyl - 5-phenyl-, 687²
 C₁₄H₁₈O₈ Anthraquinone, 1,2,3,4,5,6,7,8-octa-hydro-1 hydroxy, 3693²
 1,3 Hexanedione, 1-phenyl, enol acetate, 5394²
 1,3-Indandione, 2 butyl - 4 - hydroxy - 7-methyl, 2718²
 —, 2,2-diethyl-4 hydroxy 7 methyl-, 2718²
 —, 4-hydroxy 2-isobutyl 7 methyl, 2718²
 Kawaic acid, dihydro-, 937²
 Kawaic, dihydro-, 937²
 1 - Naphthaleneacrylic acid, 3,6,7,8 - tetrahydro - 2 hydroxy - β methyl, salts, 2426²
 1 - Naphthaleneacrylic acid, 1,2,3,4-tetrahydro-4 keto-, Me ester 1h32²
 Umbelliferone, 3 isobutyl 4-methyl, 4569²
 C₁₄H₁₈O₈ Chromone, 3 ethyl 5,7-dimethoxy 2 methyl, 4250²
 Cinnamic acid, *o*-carboxy, di Et ester 2143²
 Coumarin, 3-ethyl 5,7-dimethoxy 4 methyl, 4250²
 C₁₄H₁₈O₈ Sulfonic acid, methylphenyl(phenyl sulfanyl), Me ester, 253²
 C₁₄H₁₈O₈ Butanetricarboxylic acid 2 benzyl, 1803²
 1,1,3 Propanetricarboxylic acid 2 (α -methylbenzyl), 1803²
 C₁₄H₁₈O₈ Glycolic acid, Et ester, opionate, 5693²
 C₁₄H₁₈O₈ Butyric acid, β,β dimethyl, β bromophenacyl ester, 487²
 Isocaproic acid, β bromophenacyl ester 1820²
 C₁₄H₁₈BrO₈ Isovanillyl alcohol α (α bromo-ethyl), diacetate, 4538²
 Vanillyl alcohol, α (α bromoethyl) diacetate, 4538²
 C₁₄H₁₈BrO₈ Succinic acid, (5 bromo 2,4 di methoxyphenyl) di Me ester 4566²
 C₁₄H₁₈IN₃ Benzylmethylphenylazonium iodide 2982²
 C₁₄H₁₈N Cinnamoinic α amyl 4867²
 C₁₄H₁₈NO Indone, 2 amyl, oxime 4867²
 C₁₄H₁₈NO₂ Valonic acid, benzamido-, di Et ester, 5393²
 C₁₄H₁₈NO₂ Chondron, 3661²
 2 Pyrroleacrylic acid 3,5 dicarboxy 4 methyl 3,5-di Et ester 117²
 C₁₄H₁₈N₂O₈ Acetoacetic acid, α -ethyl- β -im-nitrophenylazo-, Et ester 917²
 C₁₄H₁₈N₂O₈ 4 Imisoaceticarboxamide, tetrahydric 2,5 diketo N I dimethyl 4 (α methyl- β phenylhydrazide), 3957²
 C₁₄H₁₈ Anthracene, octahydro-, 944²
 Phenanthrene, octahydro-, 944²
 C₁₄H₁₈BrNO₂ Brzone acid, β (α -bromomono-valerylaminol), Et ester, 1611²
 C₁₄H₁₈ClNO₂ 2,3,5,6 - Tetrahydro 8,9 di methoxy - 1 - benzo[*g*]pyrrolochromium chloride, 1531²
 C₁₄H₁₈ClN₂ Azo dye from 2 ethyl 5-methylpyrrole and MeC₁₄H₁₈N₂Cl, 3008²
 C₁₄H₁₈ClN₂O₃ Glycine, N [N (4 chloro-2 nitrophenylmercaptan)ethyl], 491²
 C₁₄H₁₈ClN₂O₃ Acetamide, N, N - (4,5 di methoxy - α - α -lylene)bis(α chloro, 1224²
 C₁₄H₁₈N₂ Quinoxaline, 2,3-dipropyl, 3001²
 C₁₄H₁₈N₂O Ketone, 3,5 dimethyl 2 pyrrol 3,5 dimethyl 2 pyrrolmethyl, 3009²
 C₁₄H₁₈N₂O Lactone, γ anthranoyl lactam, Me deriv, 402²
 Spure[indan 2 4 piperidine] 3² - nitrile hexahydro 2 6 dikrin 3133²
 C₁₄H₁₈N₂O Valonic acid β phenylcarbamido-di Et ester 910
 4 - Morpholinopropionol β nitrobenzoate HCl 427²
 1 Piperidineethanol (*vis* S) (4 5-methyl ened ooy 2 α isophenyl 3324²
 C₁₄H₁₈N₂ Ketone methyl 5 methyl 2 pyrrol amine 3008²
 C₁₄H₁₈N₂O Cyclooctanone 2 4 ditriphenyl hydrate 3310²
 C₁₄H₁₈N₂O Alanine N [N (N phenyl carbamalethylalicyl), 2741²
 Glycine N [N (N phenylcarbamyl ethyl) alanyl], 2741²
 C₁₄H₁₈N₂O Cysteine N [V (2,4 dinitrophenyl)ethyl], 491²
 C₁₄H₁₈N₂O Pyridine 2 6 diamino 3 (6 butoxy 3 pyrrolidin) P 4892²
 C₁₄H₁₈O 2 Butyronaphthone 6 6 7 8 tetrahydro 947²
 Cinnamaldehyde α amyl 4247² 4867²
 Isobutyronaphthone 5 6 7 8 tetrahydro-, 943²
 C₁₄H₁₈O Caproic acid α benzyl γ hydroxy 4 methyl lactone 1708²
 Cinnamic acid α amyl 4567²
 — β 2 4 trimethyl Et ester 807²
 α -Cresol 6 allyl 4 ethyl acetate 930²
 2 Hexenone 3 anisal 2132²
 γ Hexenoic acid α benzyl 1 methyl, 1508²
 C₁₄H₁₈O₂ Acetic acid (1 hydroxyethylalanyl) phenyl 2937²
 Kawaic acid tetrahydro- 937²
 1 Naphthaleneacrylic acid 5,6 7 8-tetrahydro 2 hydroxy β methyl 2426²
 Valeric acid 1 benzoyl Et ester 2135²
 C₁₄H₁₈O₂ β -Decenediacetic acid di Et ester 3673²
 1 3 Butanedioyl 1 phenyl, diacetate 3631²
 Hydrocinnamic acid α acetyl β methoxy, Et ester, 691²
 2 Pentanol, 4 methyl, acid phthalate, 4845²
 Spiro[cyclopropane 1 2² indan] 2 3 dicarboxylic anhydride hexahydro 2 methoxy 3330²
 C₁₄H₁₈O₂ Cinnamic acid 5 ethoxy - 2,4 - di methoxy, Me ester 707²
 1 3 Diacetic acid 4 carbanol, 2,2 dimethyl, 2,4-cresotane, 3636²
 Enanthic acid, β (2 4 dihydroxybenzyl), P 2737²
 C₁₄H₁₈O₂ Rhamnohexose, benzylidene-, 84²
 Succinic acid, (2 4 dimethoxyphenyl), di Me ester, 4566²
 C₁₄H₁₈O₂ Picronic 2150²
 Salicinene 2150²
 Salicylic acid β ammonide, Me ester, 5677²
 C₁₄H₁₈O₂ Salicylic acid, β glucoside, Me ester, 5677²
 C₁₄H₁₈O₂ Galactal, 2 3 4 6 - tetraacetyl 2-oxal, 279²
 Glucal, tetraacetylhydroxy, 4233²

- C₁₄H₁₉AsN₂O₃ Arsanilic acid γ (1 piperidyl carbonylacetate) and Na salt 5407³
- C₁₄H₁₉BrO₃ Glucose acetobromo- 5147³
- C₁₄H₁₉BrNO₃ Mannose 1 bromotetraacetyl, 1803³
- C₁₄H₁₉BrNO₃ 3 Pyrrolepropionic acid, α , β -dibromo 5 carboxy 2,4 dimethyl, di Et ester 1520³
- C₁₄H₁₉Cl₂GO₃ Glucothiosylmestane chloride δ tetraacetyl 4233¹
- C₁₄H₁₉ClNO₃ 3 Leucine γ (4 chloro 2 nitrophenylmercapto) Et ester 491¹
- C₁₄H₁₉ClNO₃ 2 Formyl 1 3 3 5 7 penta methylpseudomolimum perchlorate, oxime, 2427¹
- C₁₄H₁₉ClO₃ Galactose β -acetochloro- 920³ 921¹
- 4-Glucose β -acetochloro- 920³
- C₁₄H₁₉NO Cannamamide α amyl 4867³
- Cyclohexylamine γ (2 isuryl β -methylallylidene) 1810
- α -Hexeno- p toluide γ methyl 71¹
- p Phenetidine γ γ diallyl 90¹
- Piperidine 1 acetyl 2 beneyl 5429
- O₁ H₁₄N₁O₁ Benzol[α]pyrrocoline 1 2 3 5 6 10b-hexahydro 8,9 dimethoxy and H₂O 1331¹
- 2 Hexanone 3 anisal oxime 2132⁴
- 3 α Indacetic acid α cyano 3a 4 5 6 " Ta hexahydro- Et ester 3333³ 3334
- C₁₄H₁₉NO₃ Caproic acid γ bentamido- Ne ester 4235³
- Crotonic acid β p phenetidine- Et ester 2126¹
- 4 Morpholinopropanol benzoate HCl 4272¹
- Norvaline γ benzoyl Et ester 1231¹
- O₁ H₁₄N₁O₁ Malonic acid aminobenzyl di-Et ester 1493³
- 3 Pyrroleacrylic acid 5 carboxy 2,4-dimethyl di Et ester 1520³
- C₁₄H₁₉NO₃ 2,4 Pyrroledicarboxylic acid 5 formyl 3 propyl- di Et ester 3010³
- C₁₄H₁₉NO₃ Glucosamine, N (p methoxy benzylidene), 3965¹
- 2 Pyrrolecarboxylic acid 4 (β , β di carboxyethyl) 3 5 dimethyl tri methyl esters 301³
- 2 Pyrrolepropionic acid 2 5 dicarboxy 4-methyl 3 5-di Et ester, 112³
- C₁₄H₁₉N₃ Cyclohexanecarboxy - p - p toluide thio-, 500³
- C₁₄H₁₉N₃ 1 3,4 Triazole 2 - isopropyl 5-methyl 1 allyl F 2442³
- C₁₄H₁₉N₃O 1(2) Naphthalenone 3 4 - di hydric 4,5,7 trimethyl, semicarbazone 694¹
- 1 - Piperidinecarboxylic acid, α methyl benzaldehyde, 4269³
- 2 Propionaphthone, 5 6,7,8 tetrahydro-semicarbazone, 942³
- C₁₄H₁₉N₃O₃ α - Heptenolaldehyde α methyl, β -nitrophenylhydrazones, 5140³
- C₁₄H₁₉N₃O₃ Acetoacetic acid, Et ester thio- 4 p -tolylsemicarbazone 1225³
- C₁₄H₁₉N₃ Cyclohexanone, thio 4 p -tolyl semicarbazone, 1225³
- 1,4 3 - Isothiouamide 2 isostyramino- β -tolyl, and -HCl, 1532³
- C₁₄H₁₉N₃O₃ Carboxyhydrazide, α - benzal (1 piperidylcaronyl), 4269³
- C₁₄H₁₉N₃O₃ 4 - Triazole, 2,4 diamine 6-beneyl, diacetate, 958³
- 4 Triazole, 2,4 - diamino - 6 - m (and p) tolyl, diacetate, 957³, 958³
- C₁₄H₁₉N₃O₃ Diethylamine, picrolonate, 701¹
- C₁₄H₁₉N₃ Naphthalene, 6 $tert$ - butyl - 1 2,3,4-tetrahydro-, 943³
- C₁₄H₁₉BrNO₃ Butyramide, γ - bromo - γ - (3,4-dimethoxyphenethyl), 1530³
- C₁₄H₁₉BrNO₃ Benzene 1 (β bromoethyl) 4-nitro-, compd with hexamethylene tetramine, 4240³
- C₁₄H₁₉ClNO₃ 1 - Heptanol, 7 chloro-, carbam late 5395³
- C₁₄H₁₉N₃OCuNO₃ Tetramminocupric nitrobenzoate, 682³, 683³
- C₁₄H₁₉N₃ Benamidazole, 2-heptyl-, 1800¹
- C₁₄H₁₉N₃O₃ Levulinic acid, isopropyl ester phenylhydrazones, 496¹ Pr ester, phenyl hydrazones 496¹
- 2 Pentanone 4 methyl, oxime, σ -methyl-carbamlate, 1506³
- 1 Pyrrolidinedipropanol, p aminobenzoate 1826¹
- C₁₄H₁₉N₃O₃ Carbamic acid p -acetamido-, ester with 2 pentanol, 5404¹
- Glyoxal, N (γ phenylethyl), 491¹
- Lysine N -benzoyl N -methyl, 2974¹
- 4 Morpholinopropanol, p aminobenzoate, HCl, 4272¹
- C₁₄H₁₉N₃O₃ Carbamic acid, p -nitro-, heptyl ester 2686¹
- C₁₄H₁₉N₃O₃ Leucine, N (σ - nitrophenylmercapto), Et ester, 491¹
- C₁₄H₁₉N₃O₃ Galactose α toluylhydrazones, 1821¹
- C₁₄H₁₉N₃ Benzothiazole, 1 - benzylamine - 3-methyl 4531¹
- C₁₄H₁₉N₃O₃ Cyclohexylamine N - ethyl, picrate 1509¹
- Pyrrolidine 1 butyl, picrate 951¹
- C₁₄H₁₉N₃O₃ Hexanone 6 dimethylamino-, picrate, 452³
- C₁₄H₁₉N₃O₃ (Carboxymethyl)triethylammonium picrate, 5396³
- C₁₄H₁₉O₃ 1 Heptanol 2 benzal, 2708³
- Δ 2 Hexanol 3,4 dimethyl 2-phenyl, 3312³
- C₁₄H₁₉O₃ Caproic acid, σ -phenyl, Et ester, 2139³
- Caprylophenone, hydroxy, 1229¹
- σ -Cresol, ethylpropyl acetate, 929³
- Hydrocinnamic acid, β ,2,4 trimethyl, Et ester, 503³
- Sporol[cyclohexane - 1 2' indan] 3 5-dione, hexahydro-, 3335³
- Sporolendae 2 4' 1 4'-pyran]-2 (3')-one 3a 4 5 5,7,7a hexahydro 6' methyl 3335³
- 2,6-Xylenol, 4-butyl, acetate, 929³
- C₁₄H₁₉O₃ Acetic acid, (σ -benzylphenoxy), 1229³
- Benzene, 1 (and 2) - ethoxy 2 (and 1) (ethoxymethoxy) - 4 propenyl, 5156¹
- Hydrocinnamic acid β hydroxy - β 2,4 trimethyl Et ester, 693¹
- C₁₄H₁₉O₃ α - Stiborendiol, dibenzoate 4456¹
- C₁₄H₁₉O₃ Sporol[cyclopropane - 1,2 - indan] 2,3 dicarboxylic acid, hexahydro 2 methoxy, 3335³
- C₁₄H₁₉O₃ 1,2,4 5 - Cyclohexanetetrol, tetraacetate, 4236¹
- Ethylmethylcarboxylic acid, tetra Et ester 2110³
- C₁₄H₁₉O₃ Styrcetyl tetraacetate, 514³
- C₁₄H₁₉O₃ β -Glucosamine, tetraacetate, 4232³

C₁₄H₂₁O₆ Fructopyranose, 1,3,4,5-tetraacetyl-, 5815^a

Galactose, tetraacetyl-, 920^a

Glucose, tetraacetyl-, 920^a

Mannose, 2,3,4,6-tetraacetyl-, 1803^a

C₁₄H₂₁O₄ Galactosone hydrate, tetraacetyl-, 279^a

Glucose, tetraacetyl-, hydrate, 5895^a

C₁₄H₂₁BrN₃ Benzene, (β-bromoethyl)-, compd with hexamethylenetetramine, 4241¹

C₁₄H₂₁BrN₃ Benzothiazole, 1-benzylamino-3-methyl-, hydrohexabromide, 4881^a

C₁₄H₂₁ClN₃O₂ Glycine, (chloroacetyl)glycylglycylglycylglycylglycyl-, 781¹

C₁₄H₂₁ClS Sulfide, 4-chloroethyl phenyl, 5393¹

C₁₄H₂₁NO β-Butyrololide, α-ethyl-α-methyl-, 5890^a

Cyclohexylamine, N-(γ-2-furyl-β-methylpropenyl)-, and HCl, 1810^a

1 Piperidine-2-ketol, α-methyl-α-phenyl-, HCl 42^a 61¹

Valeramide, N-ethyl-β-methyl 489¹

C₁₄H₂₁NO₂ Diethylamine, β-2 allyl-β-methoxyphenoxy-, P 1037¹

2-Indanoic acid, α-cyanohexahydro-Et ester, 3333¹

Nicotinic acid α-methylheptyl ester, 4549^a

Proline acid, α-methylheptyl ester, 4549^a

C₁₄H₂₁NO₂ Pyrrololeucic acid, 5-methyl-4-propionyl 3-propyl, Et ester 3010^a

Tyrosine, isosmyl ester, and HCl 2747^a

C₁₄H₂₁NO₂ 2,4-Pyrrololeucic acid, 5-methyl-3-propyl, di-Et ester, 3010^a

3-Pyrrolopropionic acid, 5-carboxy 2,4-dimethyl-, di-Et ester 1520^a

C₁₄H₂₁NO₂ Carbamic acid, (2,4,5-trimethoxyphenoxy)-, Et ester 5405¹

5-Pyrrolopropionic acid 5-carboxy 2-ethoxymethyl-4-methyl-, 4007^a

C₁₄H₂₁NO₂ α-Phenylamide glucoside, 5067^a

C₁₄H₂₁NO₂ Glucosamine, tetraacetyl-, and HCl, 2968^a

C₁₄H₂₁NO₂ Quasitolone, 2-acetamide-5,6,7,8-tetrahydro 8-isopropyl 3-methyl 1254^a

C₁₄H₂₁N₃O₂ Enanthophenone, α-hydroxy semicarbazone, 1229¹

C₁₄H₂₁N₃O₂ 2,4-Pyrrololeucic acid 5-formyl 3-propyl, di-Et ester, hydrate, 3010^a

C₁₄H₂₁N₃O₂ 2,2-Indandiacetic acid, hexahydro-α-keto-, semicarbazone, A salt 3335^a

C₁₄H₂₁NO₂ Compd from α-amyrin 2990^a

Heptane 2-methyl 1-phenyl, 4247^a

Octane 1-phenyl, 3469^a

C₁₄H₂₁ClNO Trimethyl(1,2,2,4-tetrahydro 3-methoxy 2-naphthyl)ammonium chloride 1814^a

C₁₄H₂₁ClNO₂ See Stovaine

C₁₄H₂₁Hg 1-Pentane, 4,4-dimethyl, Hg deriv, 469^a

C₁₄H₂₁HgO₂ α-Nonenic acid, α (acetoxymercur) β (acetoxymercurioxy), Me ester, 71^a

C₁₄H₂₁HgO₂ Compd from 1-octene and Hg (OAc)₂, 71^a

C₁₄H₂₁INO Trimethyl(1,2,3,4-tetrahydro-methoxy-naphthyl)ammonium iodide, 1814^a, 2139^a

C₁₄H₂₁INO₂ (α-(α-methoxyethyl)peronyl)trimethylammonium iodide, 1814^a

β-Methoxy-α-methylhomoperonyltrimethylammonium iodide, 1814^a

C₁₄H₂₁N₃, 829^a

C₁₄H₂₁N₃O Benzaldehyde, β-[(diethylamino)ethoxy]methylammonium P 4256^a

C₁₄H₂₁N₃O₂ (See also Talcotene)

4-Piperidinol, 1,2,2,6-tetramethyl 2-pyrrololeucic acid 1526^a

Succinimide lauryl, 3007^a

C₁₄H₂₁N₃O₂ Piperazine, 2,3,5,6-tetramethyl 1-phenylethyl-, and HCl, 4272^a

C₁₄H₂₁N₃O₂ Anisic acid, 3-amino, β-diethylaminoethyl ester di HCl, P 3131¹

Benzoic acid, 4-amino 3-methoxy β-diethylaminoethyl ester, HCl P 3131¹

C₁₄H₂₁N₃O₂ Benzenesulfonic acid, β-methoxy Me ester, compd with hexamethylenetetramine, 2322^a

m-Toluenesulfonic acid, 4-hydroxy, Me ester compd with hexamethylenetetramine, 2322^a

C₁₄H₂₁N₃O₂ Octylamine, picrate 70¹

Tetraethylammonium picrate 2351¹, 2626^a, 5624^a

C₁₄H₂₁N₃O₂ Octylamine, atyphate, 70¹

C₁₄H₂₁ClO₂ Ether phenyl α,ω-trimethylisocamyl 931¹

1-Ileptanol, 2-benzyl- 4247^a

Phenol octyl, 1229^a

C₁₄H₂₁O₃ 1-Octanol 8-phenylmercapto- 5395¹

C₁₄H₂₁O₂ Carvomenthol 2-ethyl-, acetate 4856^a

Phenol, α-(octyloxy) 5408¹

Resorcinol, octyl-, 4611^a

C₁₄H₂₁O₂ 2-Indanoic acid 2-acetonyl hexahydro-, 3333¹

C₁₄H₂₁O₂ Fumaric acid, monomethyl ester, and salts 5145¹

2-Indanoic acid 2-carboxyhexahydro-, di Me ester 3333¹

2,2-Indandiacetic acid hexahydro-mono-Me ester, 3333¹

2-Indandiacetic acid hexahydro-di Me ester, 3333¹

Maleic acid, monomethyl ester, and salts, 5146¹

C₁₄H₂₁O₂ 1,2-Cyclopentanedecarboxylic acid 2-ethyl 3-keto 1-methyl, di-Et ester, 4530^a

C₁₄H₂₁O₂ 1,2,3-Cyclohexanetricarboxylic acid, 2,4-dimethyl tri Me ester, 3657^a

2,2-Indandiacetic acid hexahydro-α-hydroxy-α'-methoxy 3335^a

C₁₄H₂₁O₂ 2,3-Pentadecarboxylic acid, 4-keto-, tri Et ester, 3631¹

C₁₄H₂₁O₂ Glucoside, triacetyl β-methyl, 6-Me ether, 4230^a

C₁₄H₂₁BrP Phosphine, (β-ethylphenyl)diisopropyl dibromide, 283¹

C₁₄H₂₁CoMoN₃O₂, 3587^a

C₁₄H₂₁CoMoN₃O₂, 3587^a

C₁₄H₂₁NO₂ (3-Hydroxy-4-methoxy-α-methylbenzyl)trimethylammonium iodide, methylcarbamate, 4241^a

C₁₄H₂₁N₃ Butylamine, N,N-diethyl-4-phenyl, P 2153^a

Octylamine, N-phenyl, 2700^a

C₁₄H₂₁NO₂ Cyclohexylamine, N-(γ-2-furyl β-methylpropenyl)-, dihydro deriv, 1810^a

C₁₄H₂₁NO₂ Benzyl alcohol, α-(β-butoxy-α-methylaminoethyl)-, 2133¹

- C₁₆H₁₉NO₂S Mesitylenesulfonamide, *N* amyl, 1704¹
p Toluenesulfonamide *N* heptyl, 2704²
- C₁₆H₁₉NO₂ 3-*p*iperidinedicarboxylic acid, 4 keto 1 2 6 trimethyl-, di Et ester, P 103¹
- C₁₆H₁₉NO₂ 1 1 2 Butanetricarboxylic acid 3 keto- tri Et ester semicarbazone 3631¹
- C₁₆H₁₉NO₂ Glycine (glycylglycylglycylglycylglycyl) 78¹
- C₁₆H₁₉P Phosphoric diisopropyl 2 5 xylol, and compd with H₂Cl 2702²
- C₁₆H₁₉ Phosphoric diisopropyl 2 5 xylol, and compd with H₂Cl 2702²
- C₁₆H₁₉ *p* Menthane 2 ^Δ butenylidene- 48,6¹
- C₁₆H₁₉IOF *p* Amylmethylisopropylphosphonium iodide 287¹
- C₁₆H₁₉N Pimelonitrile *n* heptyl, 684¹
- C₁₆H₁₉NO Pyrimidine 5 sec butyl 2 4 8-trimethoxy 4229
- C₁₆H₁₉O Camphorquinone 3-di Et acetal 4871¹
 Orthoacetic acid phenyl Me dodecylpropyl ester 213¹ Me di Py ester 2135¹
- C₁₆H₁₉O₂ 1 1 Cyclopentanediacetic acid 3 methyl di Et ester 3319² 4234¹
- C₁₆H₁₉O₂ Butanetricarboxylic acid, methyl-, tri Et ester 80¹
- C₁₆H₁₉N Cyclohexylamine *N* (β ethyl ΔL hexenylidene) 1809¹
- C₁₆H₁₉NO Cyclohexylamine *N* (γ 2 butyl β methylpropenyl) isohydric deriv, 1810
- C₁₆H₁₉NO₂ 1 *p*iperidinediutyric acid, 2-carboxy di Et ester 3007¹
- C₁₆H₁₉NO₂ 3 Carvomenthenesamine acid tartrate 1234¹
- C₁₆H₁₉ Naphthalene 7 alyldecylhydro- 1 4a dimethyl 704¹
- C₁₆H₁₉Ni Pyrrolidone *N*(11) lupinyl, 3007¹
- C₁₆H₁₉O₂ 2 Butanol 1 (2 *p* menthylidene) 4856¹
 Δ 4 hexenone 5-ethyl 6-propyl, 3313¹
 Δ 6 Tridecanone 8-methyl 3312¹
- C₁₆H₁₉O₂ α Dodecanic acid, Et ester, 5663¹
 1 2 Ethanediol 1 2-dicyclohexyl, 5416¹
- C₁₆H₁₉O₂ Caproic acid α α γ triethyl β keto-, Et ester 1217¹
 Et camphor 3 hydroxy-, di Et acetal, 4571¹
- Propionic acid β methoxy, 3 *p*-menthyl ester 5672
- C₁₆H₁₉O₂S Undecylic acid α hydroxy-, azo thate 3314¹
- C₁₆H₁₉O₂ Malonic acid, amyl ethyl, diethyl ester, 1 5249¹
 Pimelic acid *n*-heptyl, 684¹
 Sulnic acid, *n*,*f*-dimethyl, di-Et ester, 919¹
- C₁₆H₁₉BrO₂ Lauric acid, α hexeno-, Et ester, 5663¹
- C₁₆H₁₉NO Butyramide *N*-3 *p*-menthyl, 1233¹
 Isolitylamide, *N*-3 *p*-menthyl- 1,33¹
- C₁₆H₁₉NO₂ Lauric acid α acetyl ester, 48,60¹
 P melanic acid, heptyl 684¹
- C₁₆H₁₉O₂ Pimelonitrile, *n* heptyl, 684¹
- C₁₆H₁₉O₂ (see also Myristic acid) Cyclohexanone di Bu acetal, 92,3
 Lauric acid, Et ester 1971¹
- C₁₆H₁₉O₂ Myristic acid α mercapto-, 95,2¹
- C₁₆H₁₉O₂ 1 4 Cyclohexanedione, bis diethyl acetal, 9,21¹
- C₁₆H₂₁N Hexylamine, *N* - cyclohexyl β - methyl-, and -HCl, 1809¹
- C₁₆H₂₁ Tetradecane, 1717¹, 2040²
- C₁₆H₂₁N Lupinone, α - dimethylamino-, dimethiodide, 3007¹
- C₁₆H₂₁O 1 Tetradecanol, 1797¹
- C₁₆H₂₁O₂ Caproaldehyde, α - butyl - α - hydroxy-, di Et acetal, 2113¹
- C₁₆H₂₁NO₂ 2 Butanesulfonic acid, 3 hydroxy-, menthylom on salt, 1216¹
- C₁₆H₂₁AsI Trisubstituted arsenic iodide, 1455¹
- C₁₆H₂₁N₂O₂ Propionaldehyde, β,β' hydrazonobis-, bis(diethyl acetal), 4237¹
- C₁₆H₂₁ClN₂O β Methoxytrimethylenebis(diethylmethylanmonium chloride), 5395¹
- C₁₆H₂₁ClN₂O₂ (Diethylamino β - methoxypropyl)triethylammonium chloroplatinate, 5395¹
 β - Methoxytrimethylenebis(diethylmethylanmonium chloroplatinate), 5395¹
- C₁₆H₂₁ClN₂O₂PT Choline butyrylcholine chloroplatinate, 3315¹
- C₁₆H₂₁AsCdI₂ Trisubstituted arsenic iodide, CdI₂ deriv, 1455¹
- C₁₆H₂₁ClN₂O₂PT (γ - Methoxypropyl)trimethylanmonium chloroplatinate, 1814¹
- C₁₆H₂₁NiSi₂ 4 H₂O, 1177¹
- C₁₆H₂₁Br₂ClO₂ Anthraquinone, 1,4,6-trichloro-7 (dibromomethyl), 3647¹
- C₁₆H₂₁ClO₂ 2 Anthraldehyde, 3,5,6-trichloro-9,10-dihydro-9,10-diketo-, 3647¹
- C₁₆H₂₁ClO₂ 2 Anthraquinonecarboxylic acid 3,5,8-trichloro-, 3647¹
- C₁₆H₂₁ClNO₂ 1 Anthraquinonecarboxylic acid, 4-chloro-3641¹
- C₁₆H₂₁ClO₂ 2 Anthraquinonecarboxylic acid, 1 chloro-4 hydroxy-, P 3361¹
- C₁₆H₂₁NO 3 2,6 *meso* - Anthrisothiazole - 3 aldehyde 6 keto-, P 3177¹
- C₁₆H₂₁NO₂ 3 2,6 *meso* - Anthrisothiazole - 3 carboxylic acid, 6-keto-, P 3177¹
- C₁₆H₂₁NO₂ 3 2,6 - *meso* - Anthrisothiazole 3 carboxylic acid, 6-keto-, 5-dioxide, P 3178¹
- C₁₆H₂₁BrNO₂ 2 Anthraquinonecarboxylic acid, 3 amino-4 bromo-, P 1263¹
- C₁₆H₂₁Br₂O₂ Iodone, 2,5 dibromo-3 phenyl, 1234¹
- C₁₆H₂₁BrO₂ 3 3-Thiophanthene carboxylic acid, 2 acetyl di Br deriv, 5167¹
- C₁₆H₂₁NO₂ 2 Anthraquinonecarboxylic acid, 3-amino-, P 3177¹
- C₁₆H₂₁NO₂ 3 3-*meso* - Anthrepyranecarboxylic acid, 2,6-dihydro-6-keto-, P 2440¹, P 3177¹
- C₁₆H₂₁O₂ 1 Anthraldehyde, 9 10 dihydro 9,10-diketo- 3338¹
 1 - Anthreox and 9,10 dihydroxy γ lactone, 507¹
- C₁₆H₂₁O₂ 1 Anthraquinonecarboxylic acid, 9,10 *p*-9¹
 Phenanthrenequinone, 2 3(?) - methyleneoxy, 1243¹
- C₁₆H₂₁O₂ 2 Anthraquinonecarboxylic acid, 4-hydroxy-, P 3361¹
- C₁₆H₂₁O₂ 2 Anthraquinonecarboxylic acid, 1,4-dihydroxy-, P 3361¹
- Muon stho, 2426, 3338¹
- C₁₆H₂₁AsClN₂O₂ Quinol[5,7-β] - 1 4 benzarsazine, 7 - chloro 7 12 - dihydro- 5 - nitro-, and -HCl, 5676¹
- C₁₆H₂₁BrN₂O₂ Pseudoindolyl, 6 - bromo - 2 *p* nitrobenzyl, 1322¹

- C₁₇H₁₁BrO₃ 1 β -Naphthothiosphenecarboxylic acid, 2 bromoacetyl, 5167¹
- C₁₇H₁₁BrN₂O₃ Phthalaz-1-one, 2,6'-dibromo-4'-nitro-3-phenyl-4-methyl-, 4273⁴
- C₁₇H₁₁ClN₂O₃ 1,5-Pyridopyridine-4-carboxylic acid, 5-chloro-2-phenyl-, P 716¹
- C₁₇H₁₁ClO₃ 3-Phenylthiophenecarbonyl chloride, 2717¹
- C₁₇H₁₁ClO₃ Anthraquinone, 1-chloro-2-methyl-, P 1265⁴
- C₁₇H₁₁ClO₃ Anthraquinone, 1-chloro-4-methoxy-, 3645⁴
- C₁₇H₁₁Cl₂N₂O₃ Phthalaz-1-one, 2,6-dichloro-4'-nitro-3-phenyl-4-methyl-, 4273⁴
- C₁₇H₁₁Cl₂NO₃ Compd, m 274⁴, from hydroquinonequinolinium chloride, 3995⁴
- C₁₇H₁₁NO₃ 2-Antisaldehyde 1-amino-9,10-dihydro-9,10-diketo-, 947¹, P 2539¹
- Propiophenone β -nitro- β -phenyl 2145⁴
- C₁₇H₁₁NO₃ Anthraquinone, 2-methyl-1-nitro-, 947¹
- Coumarin, nitro-3-phenyl 4852³, 4883¹
- C₁₇H₁₁NO₃ Quinoxaline, 1,4-benzazepine 7,12-dihydro-7-hydroxy-5-nitro-, 3676⁴
- C₁₇H₁₁BrNO₃ Compd m 230⁴ (decomposes) from compd m 320⁴ and AcONa, 947¹
- Isosazole, 3-(p -bromophenyl)-5-phenyl 1820⁴
- C₁₇H₁₁BrNO₃ Phthalimide, N - p -bromobenzyl-, 4243⁴
- C₁₇H₁₁Br₂O₃ 1,3-Propanedione, 2,2-dibromo-1,3-diphenyl-, 3642¹
- C₁₇H₁₁Br₂N₂O₃ Acetaminic, α,α -(2,4,6-trimethylisopropylidene)-, α,α -dibromo-, 2985⁴
- C₁₇H₁₁ClN₂O₃ Phthalimide, N - p -chlorobenzyl-, 4243⁴
- C₁₇H₁₁Cl₂N₂O₃ Acetaminic, α,α' -(2,4,6-trimethylisopropylidene)-, α,α' -dichloro-, 2985⁴
- C₁₇H₁₁INO₃ Phthalimide, N - p -iodobenzyl-, 4243⁴
- C₁₇H₁₁N₂O₃ β -Acetophenanthran-3,5-diamine P 4717¹
- C₁₇H₁₁N₂O₃ 1,2,4-Oxiazole, 3-benzoyl-5-phenyl-, 3623¹
- Quinoxaline 2-(σ (m and p)-nitrophenyl)- 296⁴, 297⁴
- C₁₇H₁₁N₂O₃ 2-Antisaldehyde, 1-amino-9,10-dihydro-9,10-diketo-, oxime 947¹
- Phthalimide, 4-amino-, β - α deriv., 1511²
- C₁₇H₁₁N₂O₃ 1-(2,4)-Isocoumarinone, 4-(nitrophenyl)-, 3645⁴
- C₁₇H₁₁NO₃ 2-Propanol, 1,3-bis(2,4,6-trimethylisopropenyl)-, 3977¹
- C₁₇H₁₁O₃ 2-Antisaldehyde, P 4412¹
- Propiophenone, β -phenyl-, 1814⁴
- C₁₇H₁₁O₃ Anthraquinone, methyl-, 512³, 3336⁴
- Flavone, 953¹
- C₁₇H₁₁O₃ 1,2- $\beta\beta$ -Naphthopyrone, 3-acetyl 2146⁴
- Propanedione, diphenyl-, 3642¹
- Umbelliferone, 3-phenyl-, 4541¹
- C₁₇H₁₁O₃ 1- β -Naphthothiosphenecarboxylic acid, 2-acetyl-, 5167¹
- 3-Thiophanthrenecarboxylic acid, 3-acetyl-, 5167¹
- C₁₇H₁₁O₃ Anthraquinone, hydroxymethoxy-, 1519⁴, 3645⁴
- Benzal, 3,4-methylenedioxy-, 1243³, 4875⁴
- Cheysophanic acid, 1034¹
- Coumarin, dihydroxyphenyl 4541⁴, 5671¹
- Dadzeo 5675¹
- Naphthalene anhydride, 4-propionyl 5674¹
- Rubadin, 3337¹
- C₁₇H₁₁O₃ Anthraquinone, 1,4,6-trihydroxy 7-methyl 3647¹
- Genistan, 5675¹
- C₁₇H₁₁O₃ Cyanidin 5165⁴
- C₁₇H₁₁O₃ (See also *Quercetin*) Morin, 3393¹
- Pigment from acacia wood, 4275¹
- C₁₇H₁₁O₃ Myricetin, 3395¹
- C₁₇H₁₁BrO₃ Anthrone 10-bromo-2-(and 3)-methyl 4546¹
- Chalcone 3-bromo- 91¹
- C₁₇H₁₁BrO₃ 1,3-Propanedione 2-bromo-1,3-diphenyl 3642¹
- C₁₇H₁₁BrO₃ Thioxanthone, 4-bromo-1,2-dimethoxy 2724¹
- C₁₇H₁₁BrO₃ Thioxanthone 4-bromo-1,2-dimethoxy 10-dioxo-2²⁵
- C₁₇H₁₁BrClIO₃ Hydrocoumaric acid α,β -dibromo-, p -iodophenyl ester dichloride 4245⁴
- C₁₇H₁₁BrIO₃ Hydrocoumaric acid α,β -dibromo-, p -iodophenyl ester 4245⁴
- C₁₇H₁₁BrNO₃ 1,6-Dibromo-2-hydroxy-1-naphthylpyridinium bromide 947¹
- C₁₇H₁₁Br₂NO₃ Phthalaz-1-one, 2,4-dibromo-4-amino-3-phenyl-4-methyl-, 4273⁴
- C₁₇H₁₁BrO₃ Benzyl alcohol α -(tribromo-methyl) benzoate 505¹
- C₁₇H₁₁ClNO₃ Glyoxime chlorophenyl, β - α deriv. 1430⁴
- C₁₇H₁₁ClO₃ Glyoxyl chloride α -(benzyl-methoxyphenyl) 6186¹
- C₁₇H₁₁ClO₃ Acetophenone α -(σ -chlorophenyl)-3-methylenedioxy 2714¹
- C₁₇H₁₁ClO₃ Benzoin 2-chloro-3,4-methylene-dioxy-, 2992⁴
- C₁₇H₁₁ClO₃ Iset α -dichloride 5426¹
- Luteolumidic chloride 5426¹
- C₁₇H₁₁ClO₃ Cyanidin chloride 5165⁴, 5898⁴
- C₁₇H₁₁ClO₃ Compd from perillalene HCl, 3997¹
- C₁₇H₁₁ClIO₃ Coumaric acid p -iodophenyl ester, dichloride 4245⁴
- Hydrocoumaric acid α,β -dichloro- p -iodophenyl ester, 4245⁴
- C₁₇H₁₁ClNO₃ Phthalaz-1-one, 2,6-dichloro-4-amino-3-phenyl-4-methyl-, 4273⁴
- C₁₇H₁₁ClNO₃ Benzyl alcohol α -(trichloro-methyl) α -tribromobenzoate 5711¹
- C₁₇H₁₁Cl₂NO₃ Coumaraldehyde (2,4,6-trichlorophenylhydrazine) 5408¹
- C₁₇H₁₁Cl₂N₂O₃ Hydrazine α -acetyl- β -benzoyl- α -(2,4,6-trichlorophenyl) 5406¹
- C₁₇H₁₁IO₃ Coumaric acid p -iodophenyl ester 4245⁴
- C₁₇H₁₁INO₃ See *Thyoxime*
- C₁₇H₁₁N₂NO₃ Quinoxaline phenyl 296⁴, 297⁴
- C₁₇H₁₁NO₃ β -Acetaphthanthrone, amino 1 4556¹
- Isosazole diphenyl, 10,4, 1518²
- α -Toluidine α -benzoyl-, 1240⁴
- C₁₇H₁₁NO₃ Acridinacetic acid β -ester 297¹
- Anthraquinone, 1-amino-2-methyl-, 947¹
- C₁₇H₁₁NO₃ Anthraquinone, 1-amino-2-methylmercapto-, 2723¹
- C₁₇H₁₁NO₃ Naphthalimide, 4-propionyl-, 5674¹

- Phthalide 4 (and 5) benzamide, 3325^a
 Propionitrone diphenyl 2-oxime, 3645^a
 4 3 Pyrrolopyrrol 1(2) one, piperonyl
 dene 1521^a
 C₁₅H₁₁NO, Abzans 3-(aminomethyl), 1242^a
 C₁₅H₁₁N₂O 2 Naphthal 1 (3 pyridylazo)
 and HCl, 3344^a
 3 Quinoxaline 5-phenylazo, 958^a
 C₁₅H₁₁N₂O, Furazans 3-benzamide 4 phenyl,
 3623^a
 1 3 2 4) Isoquinoxalinedione, 4 phenylazo-
 3648^a
 Oxadiazole benzamidophenyl 498^a
 — benzoylphenyl, oxime 3623^a
 4 3) Quinoxalene 3 benzamide, 4582^a
 1 2 5 Triazole 3 carboxylic acid, 1 4-
 diphenyl, 1827^a
 C₁₅H₁₁N₂O, Phthalaz 1 one 4 nitro 3
 phenyl-4 methyl 4272^a
 3 4 5 Pyrazolotriene 1 2 diphenyl
 4-oxime 2145^a
 C₁₅H₁₁N₂O, Benzothiazole, 1 (N acetyl p-
 nitroaniline) 104^a
 C₁₅H₁₁N₂O, 5 Acridinecarbamie acid 1 nitro,
 Me ester, 4271^a
 C₁₅H₁₁N₂O, 3 Benzene sulfonamide acid p (8-
 hydroxy 5 quinoxylazo) NaHSO₄
 compd 904^a
 C₁₅H₁₁N₂O, Phenol 2 6 dihydro 4 (3 nitro-
 p-phenyl) acetate, 4873^a
 C₁₅H₁₁N₂O 2 3 Triazomercaptan 4 amino-
 6-phenyl picrate, 1531^a
 C₁₅H₁₁AsNO₂ 2 Fluorenearsonic acid, 7 acet
 amido-9 keto-9 and 1/2 salt 3983^a
 C₁₅H₁₁AsNO₂ Glyoxal 7 arseno 9 keto-
 2 fluoryl 3983^a
 C₁₅H₁₁AsNO₂ 8 Arsanic acid 1/2 (5 nitro-
 5 quinoxyl) 5676^a
 C₁₅H₁₁BrClNO₂ 3 Carbazic acid 3 bromo-2
 hydroxy 5 methyl Me ester, 2 chloro-
 6-nitrobenzenesulfonate 5409^a
 C₁₅H₁₁BrNO₂ Chalcone bromo- oxime, 1820^a
 5141^a
 Cinnamanilide p bromo-, 1820^a
 4^a Isoxazoline 3 (p bromophenyl) 5-
 phenyl 1820^a
 C₁₅H₁₁BrNO₂ Phthalamic acid N p bromo-
 benzyl 4243^a
 C₁₅H₁₁BrNO₂ Benzothiazole 3 bromo 1
 p bromoanilino-5-ethoxy (7) 104^a
 C₁₅H₁₁BrO₂ 3 6 Anthracenol, 9 9 dimethyl
 dibromo deriv, 3644^a
 C₁₅H₁₁BrNO₂ Propiophenone p α β tribromo-
 8 phenyl oxime, 1820^a
 C₁₅H₁₁ClINO₂ Chalcone, 2'-chloro- oxime 1820^a
 Cinnamanilide, n-chloro-, 1820^a
 C₁₅H₁₁ClINO₂ 1 (1,4 Dihydroxy 2-naphthyl)
 pyridinium chloride, 3998^a
 C₁₅H₁₁ClINO₂ Acetanilide 5-chloro 2 mer-
 capto-, benzoate, 931^a
 Benzanilide, 5-chloro- 2-mercapto-,
 acetate, 931^a
 C₁₅H₁₁ClINO₂ Acetophenone α (6-chloro-
 phenyl) 3 4 methyleandoxy, oxime,
 2714^a
 Phthalamic acid, N p-chlorobenzyl, 4243^a
 α-Toluanilide, n-chloro 2,4-methylene-
 dioxy, 2714^a
 C₁₅H₁₁ClINO₂ Benzene, 2'-chloro 3,4 methyl
 endoxy, oxime, 2929^a
 C₁₅H₁₁ClNO₂ Phthalaz 1-one 4'-nitro-3
 phenyl-4-methyl, -HCl, 4272^a
 C₁₅H₁₁NO₂ Phthalamic acid, N p iodobenzyl,
 4243^a
 C₁₅H₁₁N₂O 1-Benzofuranaldehyde, phenyl
 hydrazone, 1246^a
 Quinoxalene, 4-p-aminyl, P 216^a
 9 Quinoxalol, 4-amino 2-phenyl, and
 HCl, 4883^a
 C₁₅H₁₁N₂O, 2,4,1-Benzothiazin-1-one, 3 p-
 tolumo-, 3002^a
 2,4(1,3)-Quinoxalinedione, 2-thio-3-
 tolyl-, 3002^a
 C₁₅H₁₁N₂O, 5 Acridinecarbamie acid, Me ester,
 and its HCl, 4271^a
 Benzo[de]cyclopent[5]indole, 7,8,9,10-tetra-
 hydro-5(7) nitro-, 1822^a
 2-Furazemethylamine, N-2-naphthyl-
 nitroso-, 955^a
 3,5 Pyrazolodione, 1,2-diphenyl, 2145^a
 C₁₅H₁₁N₂O, Acetanilide, N-(7-nitro-2-
 fluoryl), 1235^a
 Indeno[1,2-β]indol-5a(5)-ol, 10,10a-
 dihydro-10a nitro-, 1553^a
 Isomocoumaric acid, 3-cyano-1,2 dihydro-2-
 keto-6-phenyl, Et ester, 4582^a
 C₁₅H₁₁N₂O, Xylenol, 3,5-dinitrobenzoate, 2982^a
 C₁₅H₁₁N₂O, Croconol, 3,5-dinitrobenzoate, 2982^a
 C₁₅H₁₁N₂O, Phenol, 3,4 dimethoxy, 3,5-
 dinitrobenzoate, 5423^a
 C₁₅H₁₁N₂O Benzaldehyde, 5 phenyl-2,1,3,4-
 endazolyldiazone, 498^a
 C₁₅H₁₁N₂O, Cannabinaldehyde, 2,4-dimetro-
 phenylhydrazone, 3320^a
 C₁₅H₁₁N₂O, 2 Propanol, 1,2-bis(2,4-dimetro-
 phenyl), 3977^a
 C₁₅H₁₁N₂O, 2 Pyruvaldehyde, bis-2,4-dimetro-
 phenyl hydrazone, 5079^a
 C₁₅H₁₁O Ketone, 2 fluoryl methyl, 5416^a
 C₁₅H₁₁O Acrylic acid, diphenyl 2143^a
 9 Anthrol, 3 methoxy, 1518^a
 Anthrone, hydroxymethyl, 513^a
 —, 1 methoxy, 1519^a
 Flavone, 953^a
 1,2 Propanediols, 1 3 diphenyl, 1828^a,
 3641^a
 Propiophenone, α,β-epoxy β phenyl, 941^a
 C₁₅H₁₁O, Acetophenone, 3 4-methyleandoxy-
 α phenyl 2714^a, 4876^a
 2 10-Anthradiol, 7 methoxy, 1519^a
 Anthrone, 1 hydroxy methoxy, 1519^a, 1520^a
 Benzal, α-methoxy, 1242^a, 3337^a
 Benzoic acid, o-(α-tolyl), 3336^a
 1 3(2)-Benzocouphthalenedione, 2-ethyl-4-
 hydroxy, 2140^a
 Hydroquinone, monooxonamate, 96^a
 Pyruvic acid, diphenyl, 941^a
 C₁₅H₁₁O, 2 Glyoxylic acid, [α-(benzyl)mercapto]
 phenyl, 5168^a
 Thioanthene, 1-hydroxy-2-methoxy-4-
 methyl, 2723^a
 C₁₅H₁₁O, Acetylacetyl acid, phenyl ester,
 1632^a
 Anisaldehyde, 3 (p-formyl)phenoxy, 2983^a
 Benzene, 3,4 methyleandoxy, 2992^a, 4879^a
 Hydrangelol, 288^a, 5158^a
 Salicylic acid, 3 phenyl, acetate, P 5249^a
 C₁₅H₁₁O, 2 Phloracetophenone, benzoate, 4250^a
 C₁₅H₁₁O, 3 Thioanthene, 1,2 dimethoxy, 10-
 dioxol, 2723^a
 Thioanthene 1-hydroxy-2-methoxy 4
 methyl, 10-dioxol, 2725^a
 C₁₅H₁₁O, Benzoic acid, 4-methoxy-3,4'-oxy
 bis-, 2721^a, 4567^a
 Des-β-triolenedicarboxylic acid, 2' 21^a

- Eriodictynol, 3395^a
 C₁₁H₁₄O₇ Flavonone, 3, 4, 5, 6, 7 pentahydroxy, 3979¹
 C₁₁H₁₂O₃ Benzoin acid 6-methoxy 34 sulfosyllin, 2127¹
 C₁₁H₁₄AsN₂O₂ Malonamide, *p* arsenazo, 5467²
 C₁₁H₁₄AsN₂O₂ 2-Fluorocarbonyl acid, 7 (carbamylmethylamino) 9 keto, and *Na salt*, 3983¹
 C₁₁H₁₄BrN₂ Δ¹-1,2-Diazetene 1 (*p* bromophenyl)-3 *p* tolyl, 4579^a
 C₁₁H₁₄BrN₂O Phthalimide, 2 (4 amino 2 bromophenyl)-3 methyl, 4273^a
 C₁₁H₁₄BrN₂O₂ Benzoin 1,3,6 thiazadiazepine 2(1) one, 4 (bromomethyl) 4,5 dihydro 4 phenyl, 4263^a, 4266¹
 Benzothiazole, 1 *p* bromobenzene 5 ethoxy, 104¹
 —, 5-bromo-1 *p* phenetidine- 104¹
 C₁₁H₁₄BrO Propiophenone *α* bromo-*p* phenyl, 4276¹
 C₁₁H₁₄BrO₂ Benzoic acid *α* (2 bromo 4,5 dimethoxyphenyl)mercapto, 2724¹
 C₁₁H₁₄Br₂O Hydrocyanamide dibromo-1815^a
 Propiophenone *α* *p* dibromo *p* phenyl oxime 1616¹
 C₁₁H₁₄Br₂N₂O₂ *p* Benzophenone dibromo-266¹, 1817¹
 C₁₁H₁₄ClN₂O Indanol, 6 (*p* chlorophenyl) azo, 694¹
 C₁₁H₁₄ClO Acetophenone *α* (*p* chlorophenyl) *p* methyl, 1524¹
 Acetophenone *p*-chloro-*α* *p* tolyl 1524¹
 Anisole *p* (*p* chloro *α* methylene beetyl), 4739¹
 Propiophenone, *p* chloro *α* phenyl 1514¹
 C₁₁H₁₄ClO₂ Benzoin 2 chloro 4 methoxy 2992¹
 C₁₁H₁₄ClN₂O₂ Benzyl alcohol *α* (trichloromethyl), aminobenzoate, 5711¹
 C₁₁H₁₄Cl₂O₂ Δ¹ Cyclohexadecanone 2 chloro-6 (2,6 dichloro *p* tolosyl) 6 methoxy 4 methyl 5663¹
 C₁₁H₁₄IN₂ Ethyl 6 iodo 5,6 benzocyclohexanone iodide 4269^a
 C₁₁H₁₄N₂ Acridine 4 methyl 294 4533¹
 Benzocyclopentadiene tetrahydro-, 1522^a
 C₁₁H₁₄N₂O₂ 6 Benzocyclohexanone 5(4) one 4 ethyl, 4269^a
 1,3,2 Benzoxazine 2-methyl 4 phenyl and derivatives, 1250¹
 Chalcone, oxime, 1815^a, 2132^a 5141^a
 Cinnamamide, 1415^a
 2-Furanmethylamine, N 2 naphthyl 933^a
 Δ¹-isoxazoline, 3,5-diphenyl 1815^a
 C₁₁H₁₄N₂O₂ 5 Acridinecarboxylic acid, Me ester, 297¹
 Anthrone 3-amino-2-methoxy P 5611^a
 Phthalimide, 2 (*p* hydroxyphenyl) 3 methyl, 4273^a
 1,3-Propanedione, 2 amino-1,3 di-phenyl, 5645^a
 C₁₁H₁₄NO₂ Mandelicamide thio-benzoate, 2705¹
 C₁₁H₁₄NO₂ Acetophenone, 3,4-methylenedioxy *α* phenyl, oxime, 2714¹
 Ether, benzyl *m*-(*p* nitrovinyl)phenyl, 4552^a
 Ketone ethyl 4 nitro 3-acrylphenyl, 5674^a
 Stilbene, 4-methoxy-4-nitro-, 2137^a
α Tolmacamide, 3,4 methylenedioxy 2714¹
 C₁₁H₁₄NO₂ Benzoin, 3,4 methylenedioxy oxime, 2992^a 4876¹
 2-Furanacrylic acid, *α* benzamido-, Me ester 2143¹
 Phenethyl alcohol *α* nitro, benzoate 4569^a
 Phetanal, 1632^a
 Phthalimide acid methoxy, 3655^a
 C₁₁H₁₄NO₂ Benzoic acid, *p* (*p* nitrophenoxyl) Et ester 2783^a
 Ketone, 7,8 dihydroxy 5 quinoxylmethyl diacetate 2724¹
 Phenol *p* (3 nitro *p* anisyl) acetate, 4873¹
 C₁₁H₁₄NO₂ 1,4-Pyridinedicarboxylic acid 1 (o carboxyphenyl) 2,5-dimethyl 5410^a
 C₁₁H₁₄N₂ 1,2,5 Triazole 3 methyl 1,4 di-phenyl 1527¹
 C₁₁H₁₄NO Phthalic 1 one 4 amino 3 phenyl-4 methyl 4273¹
 C₁₁H₁₄NO₂ Benzoin 1,3,6 thiazadiazepine 2(1) one 4 aceto- Me deriv 4266¹
 Benzoin 1,3,6 thiazadiazepine 2(1) one 4 *p* tolosino- 4266¹
 Urea *α* (5 methyl 1 benzothiazolyl) *p* phenyl 104¹
 C₁₁H₁₄NO₂ Δ¹ 1,2 Diazetene 1 (*p* nitro phenyl) 3 *p* tolyl 4579^a
 C₁₁H₁₄NO₂ Compd decamps 225^a from Δ¹ 3,6 endomethylene tetrahydrophthalic anhydride and Ph₂N₂ 1807^a
 Glycylglycidamide *α* phenyl oxime Ba deriv, 1490^a 3623^a
 C₁₁H₁₄NO₂ Phthalic 1 one 4 nitro 3 phenyl 4 methyl sulfate 4272^a
 C₁₁H₁₄NO₂ *p* Toluenesulfonic acid 3 nitro-, 2,4-dinitro-3-benzyl ester 930^a
 C₁₁H₁₄N₂O₂ Alizarin sulfonic acid guanidine salt 161¹
 C₁₁H₁₄N₂ 1,3,4 Triazole 2 (methylmercapto) 1,5-diphenyl 2110^a
 C₁₁H₁₄N₂O₂ Isato 4 amido semicarbazone 3634¹
 C₁₁H₁₄NO₂ *p* Phenylendiamine Δ¹ *N* dimethyl Δ¹ 2,4,5 trinitrobenzoal 3974¹
 C₁₁H₁₄NO₂ Ethanol 1 methoxy 2,2 di-phenyl *N* deriv 4254¹
 C₁₁H₁₄AcNO₂ 2 Fluoreneacetic acid, 7 acet amido- 1235¹
 C₁₁H₁₄AsN₂ Dibenzylgold cyanide 4220^a
 C₁₁H₁₄BrNO₂ *α* Benzamide, 4 bromo 5 methyl 1225¹
 C₁₁H₁₄BrNO₂ Cyclohexanone, 1 (bromomethyl) *p*-nitrobenzoate 73¹
 C₁₁H₁₄NO₂ 3-m Acetoinolide 3 bromo 6 hydroxy, benzene sulfonate 5405^a
α Benzene sulfonamide, 5 bromo 5 hydroxy, acetate 5405^a
 C₁₁H₁₄Br₂ Bibenzyl, *p*, *p* dibromo *α* methyl 5410^a
 C₁₁H₁₄Br₂H₂O₂ Methac, di *p* anisylbromo-(benzomercaptan), 2413^a
 C₁₁H₁₄Br₂N₂ Carbamide, 3,3' dibromo-4,4' dimethylthio-, 104¹
 C₁₁H₁₄ClNO₂ 1-Ethyl-2-phenylbenzoxazolin chloride, and derivatives, 1249^a
 C₁₁H₁₄ClNO₂ Acetophenone, *α*-(o chlorophenyl) *p* methoxy, oxime 2713¹
 Anomalous chloride, *N* *p*-anisyl, 1830^a
α Tolu *p* amide, 2 chloro-, 2713^a

- C H ClNO₂ Benzoin 2 chloro 4 methoxy oxime 99⁹
- C₁₅H₁₁ClNO₂ S 1 Benzyl 2 methylbenzothiazonium perchlorate 516⁹
- C H ClNO₂ 1 Ethyl 2 phenylbenzoxazolium perchlorate 1250⁹
- C₁₅H₁₁ClNO₂ Resorcinol (p-nitrophenylazo) compd with EtCOCl 3322¹
- C₁₅H₁₁ClO₂F 7-thiobenzophosphonic acid, 2 p-amsyl 2 (p-chlorophenyl) 4⁹39³
- C H Cl HgO₂ S Methane d-amsylchloro(chloromercurithio) 2417⁹
- C H ClHgNO₂ 1 Ethyl 2 phenylbenzoxazolium chloride HgCl deriv 1⁹50⁹
- C₁₅H₁₁ClFeNO₂ 1 Ethyl 2 phenylbenzoxazolium chloride FeCl deriv 1249⁹
- C₁₅H₁₁F Propane 1 2 difluoro 1 1 diphenyl, 4⁹13¹
- C₁₅H₁₁HN₂O₂ Malonic acid phthalimido- di Et ester Na deriv 49⁹
- C₁₅H₁₁N₂ Carbamide d-methyl 2⁹01³
- 3 1⁹ Diazetone phenyl p-tolyl 45⁹2³
- C₁₅H₁₁N₂O₂ Acetamide, N (7-amsuo 2 fluoryl) 123⁹
- Acetic acid benzalphenylhydrazide 5151⁹
- Nicotinamide 1 2 dihydro 2 keto 1, 4-dimethyl 6-p-tolyl 4882¹
- 6 ethyl 3 2 dihydro 2 keto 1 methyl 4-phenyl 214¹
- Phthalimide ne 2 (p-aminophenyl) 3 methyl 42⁹3¹
- Toluic acid benzalhydrazide 29⁹4
- C₁₅H₁₁N₂O₂ Benzothiazole 1 p-phenothio-10⁹
- Carbamide p-acetylthio- 3523⁹
- C₁₅H₁₁N₂O₂ Acetamide, N-methyl 2 4, 6-trimethylisophthalyl)bis-, 2953⁹
- Acetophenone oxime carbamate 1506⁹
- Benzaldehyde, oxime o-methylcarbamate 1550¹
- Malonamide 1504¹
- Oxamide N-methyl 294¹
- C₁₅H₁₁N₂O₂ Benzoic acid, p (S acetyl 3 phenylhydrazino) 122⁹
- 3 Pyrazolone 4 5 dihydroxy 1 2 di-phenyl 2145¹
- C₁₅H₁₁N₂O₂ Acetophenone 2 4 dihydroxy, oxime carbamate 1206⁹
- Amsaldehyde 3 (p-formylphenoxyl), diamine, 2953⁹
- C₁₅H₁₁N₂O₂ S 1(2) 2 Ethylbenzothiazole, 1 2-dihydro-1 methyl, 926⁹
- C₁₅H₁₁N₂O₂ Acetamide, 4- (p-methoxyphenoxyl) 2 nitro- 1516⁹
- C₁₅H₁₁N₂ 4 Isopyrrolidine, 2-(4-amsuo-3 5-dimethyl 2-pyrimidinylene) 3 5-dimethyl and salts, 695⁹
- C₁₅H₁₁N₂O₂ Acetamide, p-formyl, p-nitrophenylhydrazine, 4243⁹
- C₁₅H₁₁N₂O₂ Urea N-benzoylhydrazinobenzyl, F 1261⁹, 6393⁹
- C₁₅H₁₁N₂O₂ S Thiocouman 4-amsuo-p-ate, 5425⁹
- C₁₅H₁₁N₂S 1 3 4 8-Thiourea 5 phenyl 2 p-phenylhydrazine, 1537⁹
- C₁₅H₁₁O₂ Acetophenone p-methyl-α-phenyl 1524¹
- Acetophenone α-p-tolyl, 1524¹
- Amsuo, (α-methylbenzyl), 4238⁹
- Ketone 3 acenaphthethyl ethyl 2673⁹
- 1-amsuolamide, dimethyl F 1⁹60⁹
- C₁₅H₁₁O₂ Acetophenone α-(p-amsyl), 45⁹5⁹
- Acetophenone, 4-hydroxy-3-methyl α-phenyl-, 1524¹
- α (p-hydroxyphenyl)-p-methyl-, 1524¹
- p-hydroxy-α-p-tolyl, 1524¹
- p-methoxy-α-phenyl-, 2⁹14¹
- Benzophenone, 4-hydroxy-3 5 dimethyl-929⁹
- Δ¹ 1 Propenol, 3-(1-naphthyl), acetate 3329⁹
- 2 6-Xylenol, benzoate, 929⁹
- C₁₅H₁₁O₂ Benzophenone, p-p'-dimethoxythio-, 1239¹
- Carbamate acid, thio-, d-p-tolyl ester, 2⁹0⁹
- C₁₅H₁₁O₂ Benzoin, methoxy-, 1242⁹, 299⁹, 3337¹, 4875⁹
- Phenol, p-(p-amsyl), acetate, 45⁹3¹
- o-Toluic acid, α-cresyl-, 512⁹
- p-Tolyl carbonate, 1228⁹
- 3 6-Xanthenediol, 9,9-dimethyl, 3644¹
- C₁₅H₁₁O₂ Acetophenone, α-p-amsyl-2 4-dihydroxy, 3327¹, 5675⁹
- Benzophenone, 4-hydroxy-2 6 dimethoxy, 4250⁹
- 1,3,5,2 ββ Naphthofuranthione, 2a, 8a dihydro-4 7-dimethyl-, 1833¹
- 1,3 β Naphthofuran-1 acetic acid, 7,8 9,10-tetrahydro-3-keto-, 2426⁹
- 1 2 Pyran 3 carboxylic acid 2 keto-6-methyl-4-phenyl, Et ester, 2145¹
- C₁₅H₁₁O₂ Methysulfonic acid, 933¹
- C₁₅H₁₁O₂ S Toluene sulfonic acid, hydroxy, Me ester, benzoate, 3322¹
- C₁₅H₁₁O₂ Acacitochol 2719⁹
- Catechol, 2719⁹
- Chromone, dihydroxy 2,3-dimethyl, acetate, 4250⁹, 5671⁹
- Compd, m 193⁹, from methylmagnesium 427⁹
- Coumano, d-hydroxy-3 4-dimethyl diacetate, 4250⁹, 5671⁹
- Isocoucalchol, 2719⁹
- C₁₅H₁₁O₂ S Benzoic acid, 5 (p-amsylsulfonyl) 2-methoxy, 2135¹
- C₁₅H₁₁O₂ Cinnamic acid, 3,4,5-trihydroxy, triacetate, 3951¹
- C₁₅H₁₁O₂ Cinnamic acid, 3,4,5-trihydroxy, tri(methylcarbonate), 3959⁹
- C₁₅H₁₁AsN₂O₂ Arsamic acid, V-(phenyl carbamylacetate), and Na salt, 5407⁹
- C₁₅H₁₁BrN₂O₂ Carbamide, p-bromo p'-ethoxythio-, 104¹
- C₁₅H₁₁BrN₂ S Pseudourea, β-(p-bromophenyl) α-v-dimethyl α-phenylthio-, 104¹
- C₁₅H₁₁BrN₂O₂ Benzaldehyde, m-bromo-4-o-toluenesulfoncarbazone, 3634¹
- C₁₅H₁₁BrN₂O₂ Benzylamine, m-bromo N, N-dimethyl-, picrate, 91¹
- C₁₅H₁₁BrN₂O₂ S 3567⁹
- C₁₅H₁₁ClN₂ Dibenzylamine, p-chloro-p'-fluoro-N-methyl, and-HCl, 925⁹
- C₁₅H₁₁ClN₂O₂ o-Cresol, phenylazo-, compd with AcCl, 3321¹
- Phenol p-phenylazo-, compd with EtCOCl 3321¹
- C₁₅H₁₁ClN₂O₂ Benzaldehyde, chloro-4-o-toluenesulfoncarbazone, 3634¹
- C₁₅H₁₁ClCrN₂, 3587⁹
- C₁₅H₁₁ClMoN₂, 357⁹
- C₁₅H₁₁ClMoN₂, 357⁹
- C₁₅H₁₁ClN₂As, 3103⁹
- C₁₅H₁₁F₂N₂ D-benzylamine, α,β-difluoro-N-methyl, and-HCl, 925⁹

- C₁₁H₁₂N Benzylamine, *N* benzal β methyl, 4243¹
 Benzylamine, *N*- β -methylbenzal, 4243¹
 9-Fluorylaniline, *N*, *N*-dimethyl, -HBr, 918¹
 —, *N*-ethyl-, 511¹
 Phenethylamine, *N* benzal, 1810¹
 C₁₁H₁₂NO Acenaphthene, 3 propionylaniline, 5674¹
 Benzyl alcohol, α -(benzylaminomethyl), 1240¹
 Ketone, 3 acenaphthbenzyl ethyl, oxime, 5674¹
 2 Propanone, 1,3-diphenyl, oxime, 5141¹
 C₁₁H₁₂NO₂ Acetophenone, α *p*-anisyl, oxime, 2714¹
 Acetophenone, β -methoxy- α -phenyl, oxime, 2714¹
 Benzophenone, β -ethoxy, oxime, 3329¹
 Hydroxylamine, α (α -benzoylphenyl) β ethyl, 1250¹
 α -Toluanilide, β -methoxy, 2714¹
 α -Tolu β anilide, 2714¹
 C₁₁H₁₂NO₂ Acetanilide, β -(β -methoxyphenyl), 1816¹
 Benzanilide, 3,5-dimethoxy, 1816¹
 Benzoic acid, β -(β -aminophenyl), Et ester and HCl, 2705¹
 Benzoin 4 methoxy, oxime, 2992¹ 4876¹
 Diphenylammoniacarboxylic acid, 2-hydroxy 6,4-dimethyl, P 4253¹
 Nicotinic acid, 1,2-dihydro-2 keto-4-methyl 6-phenyl, Et ester, 1429¹
 C₁₁H₁₂NO₂ (See also Thapsone)
 Acetophenone α β anisyl 2,4 dihydrazyl, oxime, 3327¹ 5673¹
 Cyclohexanol 1-ethyl, β -nitrobenzoate, 73¹
 C₁₁H₁₂N₂O Ketone dihydroxymethyl 2-methyl 3-indyl, diacetate, 2720¹
 C₁₁H₁₂NO₂ Oxime, m 207¹, of compd m 199¹, 4277¹
 O₁₁H₁₂N₂O Acetophenone 2 phenylsemicarbazone 2701¹
 Benzaldehyde, 2 benzylsemicarbazone 2701¹
 1,2 Propanediolone 1 phenyl 2-oxime, 1 phenylhydrazones, 1827¹
 C₁₁H₁₂N₂O₂ Carbanilide β acetylthio-, oxime 2323¹
 Carbanilide, β -formyl- β' -methylthio-, oxime 3323¹
 C₁₁H₁₂N₂O₂ Carbanilide β acetamido-, 1501¹
 Methyl sed, 126¹
 3,5 Pyrazolodione, 1,2 diphenyl, NH₂ deriv, 2145¹
 C₁₁H₁₂N₂O₂ Carbanilide, 5-formyl 2-methoxy, oxime, 3323¹
 C₁₁H₁₂N₂O₂ 2 Furanpropionic acid, α benzamido- β -carbamido-, 2143¹
 Phenethylamine *N* (2,4-dinitrophenyl) β methoxy, 5105¹
 C₁₁H₁₂N₂O₂ Benzene, propyl, perate 1815¹
 Hexamethylene, perate, 1815¹
 Methylene, perate, 1815¹
 Pseudocumene, perate 1815¹
 C₁₁H₁₂N₂O₂ Carboxylic acid, acid, 354 ester, azine with H₂Br, and H₂, 2119¹
 C₁₁H₁₂N₂O₂ Benzaldehyde, nitro-, 4 α -toluamsemicarbazone, 3634¹
 C₁₁H₁₂N₂O₂ Pyridine, 3-(2 pyrrylidyl), perate, 3004¹
 C₁₁H₁₂O₂P Ethylenephosphonic acid, 2- β -anisyl 2 phenyl-, 4239¹
 C₁₁H₁₂ Propane, 1,3-diphenyl, 4542¹
 Pseudocumene, α -phenyl 3000¹
 C₁₁H₁₂AcN Fluorazamine, 1,6-dihydro-1 propyl, 1831¹
 C₁₁H₁₂AcNO 1 benzamine, 1,6-dihydro-1-propyl, 1-oxide, 1831¹
 C₁₁H₁₂AcN₂O₂ Azenilic acid, aminoguanidine salt, 3899¹
 C₁₁H₁₂AcK₂O₂ Arsenic acid, *N*, *N'* maloxyl bis-, 3407¹
 C₁₁H₁₂BrN Dibenzylamine, β -bromo-*N* methyl, 91¹
 C₁₁H₁₂BrNO₂ Cyclohexanol, 1 (1 isomethyl), β -aminobenzoate, 73¹
 C₁₁H₁₂BrNO₂ 2-Indolecarboxylic acid 6-bromo-3 β glucosidic K salt, 1522¹
 C₁₁H₁₂BrN Benzaldehyde β -dimethylamino-, β bromophenylhydrazones 4243¹
 C₁₁H₁₂BrN₂O Ketone 2 (3 5-dibromo-4 methyl 2 pyrrylmethylene 3,5 dimethyl-4 isopyrryl ethyl, and HBr 3010¹
 C₁₁H₁₂ClNO₂ Benzene sulfonamide *N* (β -chloro-methylphenethyl) 658¹
 C₁₁H₁₂ClO₂P Lithanaphosphonic acid 2 β anisyl 2 (β -chlorophenyl) 4239¹
 C₁₁H₁₂ClO₂Te β -Anisyl β phenyltellurium di chloride 1755¹
 C₁₁H₁₂FN Dibenzylamine, fluoro- β methyl and HCl 92¹
 C₁₁H₁₂NO Compd from Et phenylpropionate and Hg(OAc)₂, 71¹
 C₁₁H₁₂N₂ Cyclopentanone azobisylhydrazones, 1527¹
 C₁₁H₁₂N₂O Acetophenone, α toluene-, oxime, 5141¹
 α -Acetotoluide, 4 anilino- 501¹
 Carbanilide dimethyl, 1503¹
 Δ 1 Propanone 3 (β -dimethylaminophenyl) 1 (3 pyrryl) 3003¹
 10-Pseudosondolobenzimidazolone, 5b 6 7, 8 9 9a heahydroxymethyl 701¹
 α -Tolue acid, β -benzylhydrazide 297¹
 Urea β -benzyl 1503¹
 —, α phenethyl β benzyl, 5405¹
 C₁₁H₁₂N₂O₃ Carbanilide β -ethoxythio-, 104¹
 C₁₁H₁₂N₂O₃ Hydroxylamine α (α -benzoylphenyl) β -ethyl, oxime, 1250¹
 C₁₁H₁₂N₂O₃ Benzenesulfonamide 2 (β -dimethyl aminophenyl) 1 2 dihydro-, 928¹
 Carbanilide β β -dimethoxythio- 4242¹
 C₁₁H₁₂N₂O₃ 1(2) Pyrimidinacetic acid, 3,6-dihydro-2 6-diketo-3 methyl-4-phenyl, Et ester 516¹
 C₁₁H₁₂N₂O₃ 2 Furanpropionic acid α benzamido- β methoxymamido-(?), 2143¹
 3 Pyrrylcarboxylic acid, 5,5'-carbonylbis- [2 4 dimethyl 5800¹
 Urea β -bis(2,4-dihydroxybenzyl)-, P 1261¹, 5399¹
 C₁₁H₁₂N₂O₃ Glycine, *N* (2 naphthalenesulfonyl)anil-, 2741¹
 C₁₁H₁₂N₂O₃ 3-Pyrrylmethic, 5,5' methylenebis [2,4 dimethyl, 598¹
 Pyruvaldehyde, phenylazone, 1483¹
 C₁₁H₁₂N₂O₃ Benzaldehyde, 4 toluamsemicarbazone, 3634¹
 C₁₁H₁₂N₂O₃ Benzaldehyde, β -dimethylamino-, β α trophenylhydrazones, 4243¹ sulfate, 932¹
 Malonic acid, bis(phenylhydrazide), 1504¹
 Salicylaldehyde, 4- α -toluamsemicarbazone, 3634¹
 C₁₁H₁₂N₂O₃ Anisole 2,4,6-trinitro-, compd with PhNMe₂, 835¹

- Mesidine picrate 4433
 Indine 3,4,6-tetramethyl (?) picrate 3652⁺
- C₁₅H₁₆N₄O₈ Aniline m propoxy picrate 5669⁺
 C₁₅H₁₆N₄O₈ Iccate m 182⁺ of *p*-pyrrole acid 4263⁺
 Veratrilamine picrate 1325⁺
- C₁₅H₁₆N₄O₈ Guanidine n (n methylbenzyl) picrate 4334
 C₁₅H₁₆N₄O₈ Mesitol *o*-phenyl 929⁺
 1 Naphthalenecarbinol n allyl-*o*-methyl 3330⁺
- C₁₅H₁₆O Benzophenone di Me acetal, 1798
 Biphenyl, 4-ethoxy-4 methoxy 4873⁺
 Δ Cyclohexenone, 3 hydroxy-*o*-*γ* phenyl allyl 3319⁺
 Hydrobenzoin n methyl 2426⁺
 Phenol m (γ phenylpropoxy) 5468⁺
 1,2 Propanediol 1,1-diphenyl 9476⁺
 Xerophenone 2 furyl 1520⁺
- C₁₅H₁₆O₁₀ Telluride p anisyl p-phenetyl 1755⁺
 C₁₅H₁₆O₁₀ Carbinol dianisyl 99⁺
 C₁₅H₁₆O₁₀ Anisole, 2 methyl-4 p tolylsulfonyl 212⁺
 p-Toluenesulfonic acid 3-*o*-xyl ester, 930⁺
- O₁₅H₁₆O₁₀ Benzyl alcohol n n methylenedioxy bis- 5393⁺
 Methane bis(p-methoxyphenoxy) 5393⁺
 γ-Pentenoic acid n acetyl β-beto-4-phenyl, Et ester 29⁺6⁺
 Umbelliferone 3 isopropyl-4-methyl acetate 4564⁺
 —, 4-methyl 3 propyl acetate 4664⁺
- C₁₅H₁₆O₁₅ Anisole methylsulfonyl- 2127⁺
 C₁₅H₁₆O₁₅ Compd m 291⁺ from *Phellodendron amaretto* 4870⁺
 C₁₅H₁₆O₁₅ See Escala
- C₁₅H₁₆BrN₄O₈ 2 Pyrrolocarboxylic acid 4-bromo-5 (4 ethyl 3,5 diethyl 2 isopyrrolidenemethyl) n, 3 methyl HBr, 1111⁺
- C₁₅H₁₆ClN₄O₈ 4 Quinoleol 3-chloro 2 (1 piper idylmethyl), 2430⁺
 C₁₅H₁₆ClO₁₅ Sacotomo, 3-chloro- 3340⁺
 C₁₅H₁₆Cl₂N₄Br₂ 5109⁺
 C₁₅H₁₆HgI₂S Dibenzylmethylsulfonium mercury trioxide 659⁺
- C₁₅H₁₆N₄ Aniline, γ (γ phenylpropyl), 1817⁺
 Benzohydrylamine γ γ,δ-methyl and HBr 91⁺
 Benzylamine γ-ethyl γ phenyl, 1501⁺
 Phenethylamine, N benzyl, 1810⁺
- C₁₅H₁₆NO Benzohydrol, p-dimethylamino- 1239⁺
 Ethanol 2 methylamino-3,7-diphenyl, P 4556⁺
 Phenethylamine, m benzyloxy, and salts 4552⁺
- C₁₅H₁₆NO₂ p-Cresol, m-(p hydroxyphenethyl amino), and salt, 3633⁺
 Cyclohexanol, 1-ethyl, p-aminobenzoate, 134⁺
 Pyrocatechol 4 (β Benzylaminoethyl) — HCl, 3633⁺
 Spiro[cyclopentane 1,3 pyrrolidine] 2,5-dione, 3 methyl 1 phenyl, 4224⁺
 C₁₅H₁₆NO₂ Cinnomonic acid, 2-oxo-oxo- 5243⁺
 4-Homopyrocatechol, α (p hydroxyphen ethylamino), salt, 3633⁺
 Pyrocatechol, 4-(β-p-hydroxybenzylamino-ethyl), HCl, 3633⁺
- 3 Pyrrolocarboxylic acid 2,5-dimethyl 1,6-methyl-1-*o*-anisyl, 5411⁺
 C₁₅H₁₆NO₂ p-Toluenesulfono-p-phenoxide, 90⁺
 C₁₅H₁₆NO₂ 4 Homopyrocatechol, α (3,4-dihydroxyphenethylamino), HCl, 3633⁺
 3 Indolebutyric acid, 2-carboxy, di Me ester, 514⁺
 Malonic acid, (4,3 indylbutyl), 514⁺
 C₁₅H₁₆N₄ Guanidine, di-*o*-tolyl, heptasulfide, 2422⁺
- 3 Pyrrolenine, 2,4-dimethyl-5-(3,4,5-trimethyl 2 isopyrrolidenemethyl), HBr, 698⁺
- C₁₅H₁₆N₄O Pyrrole, 1 (γ ketovaleryl), phenyl hydrate, 1521⁺
 C₁₅H₁₆N₄O₂ Guanidine, di-*o*-anisyl, P 112⁺, 3089⁺
 Spiro[indan 2,4 - piperidine] 3,5 di-*o*-methyl, hexahydro-2,6-diketo-, 3333⁺
 C₁₅H₁₆N₄O₂ Triethylphenylammonium 2,4-dimethylphenoxide, 4243⁺
 C₁₅H₁₆N₄O₂ Burea 6 amino-2-thio-1-olyl, 3634⁺
 Burea 1 phenyl 2-thio-6-*o*-toluene-, 3634⁺
 C₁₅H₁₆N₄O₂ Theobromine 1 (β anisothioethyl), 1031⁺
 C₁₅H₁₆N₄O₂ Benzylamine p-dimethylamino-, picrate, 4243⁺
 C₁₅H₁₆O₂ Ethane-phosphonic acid, 2 p anisyl 2 phenyl 4239⁺
- C₁₅H₁₆ Tricyclopentadiene, 1507⁺
 C₁₅H₁₆AsNO₂ Phenarsazine, 1,6-dihydro-1-propyl, 1,1-dihydroxy deriv., 1831⁺
 C₁₅H₁₆AsCl₂NO₂ Benzylidimethylphenylsulfonylammonium chloroaurate 5150⁺
 C₁₅H₁₆Br₂N₄ Isopyrrole, 4-bromo-2 (5-bromo-methyl) 3 ethyl 4-methyl-2 pyrrol methylene-3,5-dimethyl, HBr, 4280⁺
 C₁₅H₁₆Br₂O₂ 11 dicromamine acid, α, β-dibromo-, cyclohexyl ester, P 4683⁺
 C₁₅H₁₆Cl₂O₂ Santonine dichloride, 3350⁺
 C₁₅H₁₆Cl₂N₄Br₂ 5109⁺
 C₁₅H₁₆N₄ Benzylamine p-dimethylamino-γ-phenyl, 1817⁺
- C₁₅H₁₆N₄O₂ ketone, anisomethyl 3,4,5-trimethyl 2 pyrrol 3009⁺
 C₁₅H₁₆N₄O₂ Phthalimide, λ (aminotolyl)hexahydro-, 701⁺
 C₁₅H₁₆N₄O₂ 3 Pyrrolocarboxylic acid, 2 (3,5-dimethyl 2 isopyrrolidenemethyl) - 5-hydroxy-4-methyl, Et ester, 4010⁺
 3 Pyrrolocarboxylic acid 2 (4-ethyl-3,5-dimethyl 2 isopyrrolidenemethyl) - 5-hydroxy-4-methyl, 4010⁺
 Triethylphenylammonium mesphenoxide, 4242⁺
- C₁₅H₁₆N₄O₂ Compd, m 177⁺, from dihydro-mono-cyclopentadienequinone and N(CH₃)COEt, 1607⁺
- 1(2) Pyrimidinesuccinic acid, 3,4,5,6-tetrahydro 2,6 diketo - 3 methyl - 1-phenyl, Et ester, 517⁺
 Spiro[bisoxadine - 9, 2 indan] 2,4,6,8-tetrone, hexahydro-, 3333⁺
- C₁₅H₁₆N₄O₂ 2(1) Pyrazinone, 3,4-dihydro-3,4,6-trimethyl 3-p-tolylazomethylene-, and salt, 2431⁺
 C₁₅H₁₆N₄O₂ Pyrrole, dimethylpropyl, picrate, 3009⁺, 3010⁺
 C₁₅H₁₆O₂ 1-ther, butyl 1 asphythylmethyl, P 184⁺
 C₁₅H₁₆O₂ 1 3 Cyclohexanedione, 5-phenyl 2-propyl, 657⁺

- 2 Naphthaleneacetic acid, 4,2,3,4 tetrahydro - 1 - hydroxy - α 5 8 trimethyl γ -lactone, P 961¹
- C₁₅H₁₁O₄ (See also Santonin)
- Cinnamaldehyde, α acetyl 3,4 methylendioxy, 1230¹
- 1,3 - Indandione, 2 acetyl 4 hydroxy - 7 methyl, 2718¹
- , 2,2 diethyl 4 methoxy 7 methyl, 2718¹
- , 4 hydroxy 2-isooxymethyl 7 methyl, 2718¹
- 1,2,4 Pentanetriol, 4 (1 naphthyl), 3330¹
- C₁₅H₁₁O₄ (See also Arianism)
- Cinnamic acid, α acetyl β ethoxy Et ester 2976¹
- Santonin, oxide, 3350¹, 5173¹
- C₁₅H₁₁O₄ Succinic acid, α (2 5-dimethylphenacyl) β -methyl, 1833¹
- C₁₅H₁₁O₄ Santonin, oxonide 5173¹
- C₁₅H₁₁O₄ Santonindicarboxylic acid keto-5173¹
- C₁₅H₁₁AsS Trimethylphenylarsonium thiophenoxide 4242¹
- C₁₅H₁₁BrN₂O Tyrosine, N (α bromoisocaproyl) nitro-, 2694¹
- C₁₅H₁₁BrN₂O₃ Benzoic acid α [(N (α -bromoisopropyl)glycyl)sulfamyl], 462¹
- C₁₅H₁₁BrO₄ Caproic acid methyl, β -bromophenacyl ester, 1820¹
- Essanthic acid, β bromophenacyl ester 1820¹
- C₁₅H₁₁BrO₄ Santonin bromohydrate, 3350¹
- C₁₅H₁₁ClN₂O Anthranic acid N (N-chloroacetyl)leucyl, 492¹
- Benzoic acid, β [(N chloroacetyl)leucyl] amide 402¹
- Glycine, V [V (α -chlorobenzoyl)leucyl], 491¹
- C₁₅H₁₁ClO₄ Santonin chlorodihydro- 3350¹
- C₁₅H₁₁ClO₄ Santonin, chlorohydrate 3349¹
- 3350¹
- C₁₅H₁₁N Pteridine 1 (3 4-dihydro-2 naphthyl), 2136¹
- C₁₅H₁₁NO₄ α Cyclohexanecarboxamide, methyl 2804¹
- Δ^1 -Cyclohexanecarboxamide methyl 2804¹
- Trimethylphenylammonium phenoxide, 4242¹
- C₁₅H₁₁N₂O₄ See Tropococaine
- C₁₅H₁₁N₂O₄ Cyclopentanecarbox acid 4-carboxy-3 methyl, maleic acid, 4234¹
- C₁₅H₁₁NO₄ Santonindicarboxylic acid, keto oxime, 5173¹
- C₁₅H₁₁N₃ Trimethylphenylammonium thiophenoxide, 4242¹
- C₁₅H₁₁N₃ Compd, m 86°, firm sentence and PhN₃, 1807¹
- C₁₅H₁₁N₂O₄ Δ^1 -Cyclohexanone, 4 isopropyl, β nitrophenylhydrazine 4532¹
- C₁₅H₁₁N₂O₄ Azo dye m 248°, from 2,4 di methyl 3 propylpyrrole acid HO₂SCaH₂-NaCl, 3009¹
- C₁₅H₁₁N₂O₄ Glycine, N [N (α -nitrobenzoyl)leucyl], 492¹
- C₁₅H₁₁N₂O₄ Betaine, perlonate, 770¹
- C₁₅H₁₁N₂O₄ Hydrocinnamic acid, β -(α -bromoisocaproyl)amino, 2694¹ D⁺ D⁻
- C₁₅H₁₁BrN₂O Tyrosine, N (α bromoisocaproyl)-, 5412¹
- Tyrosine N (α bromoisocaproyl), 2804¹
- C₁₅H₁₁BrNO₃ Spiro[naphtho[1,2] 1,2,4 dioxathiazine 1,1' pyridine] 8 bromo-4a 5 6 6a, 7 8 9 10, 10a, 10b decahydro-, 5-dioxide 947¹
- C₁₅H₁₁ClNO₄ 1 2 3 4, 6 7 - Hexahydro - 9, 10 - dimethoxybenzo[α]quinolinium chloride 1531¹
- Isouquinoline, 1 (4-chlorobutyl)-3,4-dihydro-8 7 dimethoxy, HCl 1531¹
- C₁₅H₁₁ClN₂O₃ Glycine N [N (4-chloro-2 nitrophenylmercapto)leucyl] Me ester 491¹
- C₁₅H₁₁Cl₂O₄ Santonin dihydro-, dichloride, 3350¹
- C₁₅H₁₁INO₄ 1 2 3 4 6 7 Hexahydro-9 10-di methoxybenzo[α]quinolinium iodide 1531¹
- C₁₅H₁₁N₂ Isopyrrole 2 (4,5-dimethyl 2 pyrrol methyl)ethyl dimethyl, HBr, 112¹, 4280¹
- Isopyrrole 5-ethyl 2-(5-ethyl-3 methyl 2 pyrrol methyl)ene-3-methyl HBr 3356¹
- , 3,4,5-trimethyl 2 (3,4,5-trimethyl 2 pyrrol methyl)ene HBr, 3356¹
- Quinolone, 2 (β -diethylaminoethyl) and salts, 4270¹
- C₁₅H₁₁N₂O Compd from carbonylpyrocaine dihydrochloride 706
- Ketone 3 5-dimethyl 2 pyrrol methyl 3,4,5-trimethyl 2 pyrrol 3000¹
- C₁₅H₁₁N₂O₄ Cyclohexanone oxime carbamate, 3972¹
- 2 Indanecarboxic acid α ,2-dicyanohexahydro-, Et ester 3333¹
- C₁₅H₁₁N₂O₄ Cyclohexanecarboxylic acid, 2 (aminotolylcarbamyl), 701¹
- Cyclohexanone 2 hydroxy-4 5-(isopropyl ideneoxy) (?) phenylhydrazine, 5349¹
- C₁₅H₁₁N₂O₄ Kynurenic acid diethyl ester, d₁ HCl, 2444¹
- C₁₅H₁₁N₂O₄ Malonic acid, benzylcarbamate-, d₁ Et ester 1493¹
- C₁₅H₁₁N₂O₄ Glucosamine, N hippuryl, 1809¹
- C₁₅H₁₁N₂O₄ Glycine, N [N (α -carboxyphenyl sulfonyl)leucyl], 491¹
- C₁₅H₁₁N₂O₄ Ketone, bis[3,5-dimethyl 2 pyrrol], hydrate, Ac deriv, 5809¹
- C₁₅H₁₁N₂O₄ Spiro[ispidone 9 2 isodan] 2 6 dione, hexahydro-4 8-dione, 3334¹
- C₁₅H₁₁N₂O₄ Alanine, N [N (phenylcarbamyl)alanyl]glycyl, 2741¹
- C₁₅H₁₁N₂O₄ Picrate m 193-4¹, of base to 43-5¹ 3007¹
- Quinolone octahydro-, picrate, 3007¹
- C₁₅H₁₁N₂O₄ 2 Morpholine α ethyl-2,6,6 tri methyl, picrate, 5143¹
- C₁₅H₁₁O Cinnamaldehyde α -benzyl 4247¹
- Cyclopentanone 2,5-dicyclopentylidene 2420¹
- C₁₅H₁₁O₄ Alantolactone, 2987¹, 2989¹, 4003¹
- Isolantolactone 2987¹, 2989¹, 4003¹, 5417¹
- C₁₅H₁₁O₄ Hydrocinnamic acid, α acetyl α -di methyl Et ester, 5444¹
- C₁₅H₁₁O₄ Glutaric acid, β phenyl, d₁ Et ester 5161¹
- 3 Hexanot, 5 methyl, acid phthalate 4845¹
- Hydrocinnamic acid, α -acetyl β methoxy- α -methyl, Et ester, 591¹
- 2 Indanomalone acid, 2-(β , β -dihydroxy propyl)hexahydro- di lactone, 3333¹
- Malonic acid, α -methylbenzyl-, d₁ Et ester, 5154¹
- Santonin, dihydro-, oxide, 3350¹, 5173¹
- Succinic acid, α -(2,5-dimethylphenethyl) β -methyl, 1833¹
- C₁₅H₁₁O₄ Acetic acid, α , α (benzaldethin)li-3-di Et ester, 4393¹
- C₁₅H₁₁O₄ Spiro[furo 3(2), 2' inden] 2-carboxylic

- acid octahydro-4-hydroxy-5-keto- acetate 3330^a
- C₁₅H₂₀O Santoninocarboxylic acid, dihydroketo-, 517^a
- C₁₅H₁₄N₂O₂ Arsamine acid A (β-1 piperidyl carbonylpropionyl), 2705^a
- C₁₅H₁₇N₃O₃ p-Toluenesulfonamide, N (N-(bromomocaproyl)ethyl), 492^a
- C₁₅H₁₈Cl₂O Santonin chlorotetrahydro-, 3350^a
- C₁₅H₁₈Cl₂O Santonin, dihydro-, chlorohydrin, 3350^a
- C₁₅H₁₇N₃O₃ Thiazole, 2 (γ-(3-ethyl-4-methyl-2(3)-thiazolylidene)propionyl) 4-methyl-, ethoxide, 701^a
- C₁₅H₁₇N₃O₃ (See also *β-Eucaine*)
Allylamine, N (α-(2-allyl-6-methoxyphenyl)ethyl), P 1037^a
- 11 b-Benz[o]quinolizone, 1,2,3,4,6,7 hexahydro-9,10-dimethyl-, and HCl, 1531^a
- 2 Indeneacetic acid α-cyano-3a,4,5,6,7,2a hexahydro-2-methyl-, Et ester, 3333^a, 3334^a
- 1 Piperidinoethanol, 3-methyl-, benzene, HCl, P 1037^a
- C₁₅H₁₇N₃O₃ Santoninamide, 1534^a, 2149^a
- C₁₅H₁₇N₃O₃ Santonin, dihydro-, oxide, oxime, 3350^a
- C₁₅H₁₇N₃O₃ 2-Pyrrolicarboxylic acid, 4 (3,5-di-carboxyethyl)-3,5-dimethyl-, Et di Me ester, 301^a
- C₁₅H₁₇N₃O₃ 1-Propanol, 2-methoxy-2,2-bis(methoxymethyl)-, p nitrobenzoate, 1807^a
- C₁₅H₁₇N₃O₃ 2-Butyromorphone, 5,6,7,8-tetrahydro-, semicarbazone 943^a
- C₁₅H₁₇N₃O₃ (See also *Phytoligum*)
Cyclohexanone, 4-oxopropyl-, p nitrobenzyl hydrate, 4552^a
- C₁₅H₁₇N₃O₃ Glycose, N (γ-(p-aminobenzoxy)-leucyl), 491^a
- Spiroindan 2,4'-piperidine]-2,8'-di-carboxamide, hexahydro-2,8'-diketo-, 3333^a
- C₁₅H₁₇N₃O₃ Tyrosine, N leucylisotro-, 2694^a
- C₁₅H₁₇N₃O₃ Carbohydrazide, α (α-methylbenzyl)-β(1-piperidylcarbonyl)-, 4269^a
- C₁₅H₁₇N₃O₃ Amylamine pteronolate, 701^a
- Isoamylamine, pteronolate, 701^a
- C₁₅H₁₇N₃O₃ Cedrene, 4542^a
- Unsaturated terpene from alc resulting from the oxidation of cedrene, 1533^a
- C₁₅H₁₇N₃O₃ Valeramide, 4-bromo-N (3,4-dimethoxyphenethyl)-, 1530^a
- C₁₅H₁₇N₃O₃ Cedrene, dibromide, 4542^a
- C₁₅H₁₇Cl₂N₃O₃ 1-Octanol, 8-chloro-, carbamate, 5595^a
- C₁₅H₁₇Cl₂N₃O₃ Valeramide, 4-chloro-N (3,4-dimethoxyphenethyl)-, 1530^a
- C₁₅H₁₇N₃ Indole, 2-(β-diethylaminoethyl)-2-methyl-, P 2153^a
- C₁₅H₁₇N₃O₃ Apocynic acid, and peridermin, 4002^a
- C₁₅H₁₇N₃O₃ Apocynic acid, hydroxy-, 4755^a
- Levulinic acid, Bu ester, phenylhydrazine, 490^a
- Isobutyl ester phenylhydrazine, 490^a
- Spiroindan-2,4'-piperidine]-3-nitric, hexahydro 6-hydroxy-2-keto-6-methyl-, 3335^a
- C₁₅H₁₇N₃O₃ Carbamate acid, p-acetamide, benzyl ester, 3404^a
- Hydrocyanic acid β-leucylamine, 2694^a
- C₁₅H₁₇N₃O₃ Tyrosine, γ-leucyl-, 2694^a
- C₁₅H₁₇N₃O₃ 2,4-Pyrrolicdicarboxylic acid, 6-formyl-3-propyl-, di Et ester, semicarbazone, 3010^a
- C₁₅H₁₇N₃O₃ Salicylic acid, 5-sulfo-, di Me ester, compd with hexamethylene tetramine, 3329^a
- C₁₅H₁₇N₃O₃ Alantolactone, dihydro-, 2987^a, 4005^a
- Butter principle, m 174^a, from alant root 2989^a
- Caprylic acid, p-tolyl ester, 2602^a
- , p-tolyl-, P 5249^a
- α-Cresol, 4-benzyl-6-ethyl-, acetate, 829^a
- Eosanthic acid, xyl ester, 929^a
- Eosanthophenone, hydroxy-3,5-dimethyl-, 929^a
- Isovalantolactone, dihydro-, 4005^a
- Pelargonophenone, hydroxy-, 1229^a
- C₁₅H₁₇O₃ Acetic acid, (o-heptylphenoxyl)-, 1229^a
- Clovene anhydride, 3638^a
- Santonin, tetrahydro-, 708^a
- α-Toluic acid, α-(α-hydroxy-α-propylbutyl)-, 2987^a
- C₁₅H₁₇O₃ Dimethyl ester, bp 128-9°, of acid from caryophyllene, 2989^a
- Spiro(furan-3(2),2' indan)-2-carboxylic acid, octahydro-5-keto-, Et ester, 3334^a
- α-Spiroheptanone-1-carboxylic acid, 2,4-di-keto-6-methyl-, Et ester, 280^a
- C₁₅H₁₇O₃ Asaronic acid, isoamyl ester, 5154^a
- 2,2-Indandiacetic acid, hexahydro-8-keto-, di Me ester, 3335^a
- 2-Indanmalonic acid, 2-acetoxyhexahydro-, 3335^a
- Spiro(furan-3(2),2' indan)-2-carboxylic acid, octahydro-4-hydroxy-5-keto-, Et ester, 3335^a
- C₁₅H₁₇O₃ Glucose, 6-Me ether, tetraacetate 4290^a
- Miscanthusamide, tetraacetyl-β-methyl-, 1222^a
- C₁₅H₁₇O₃ 2,2-Indandiacetic acid α-bromo-hexahydro-, mono-Et ester, 3334^a
- C₁₅H₁₇N₃O₃ 3,γ-Dibromopropyltrimethylammonium theobromone-1-acetate, P 2814^a
- C₁₅H₁₇Cl₂S Sulfide, α-chloroacetyl phenyl-, 3393^a
- C₁₅H₁₇N₃O 2-Naphthol, 2-(diethylaminoethyl)-1,2,3,4-tetrahydro-, and salts 3645^a
- 1 Piperidinoethanol, α-ethyl-α-phenyl-, HCl, 4276^a
- C₁₅H₁₇N₃O₃ Propylamine, γ-(2-allyl)-6-methoxyphenoxyl N-ethyl-, P 1037^a
- C₁₅H₁₇N₃O₃ Dimelic acid, 1,2-and 1,4-di-hydro-1,2,4,5-tetramethyl-, di Et ester, 295^a
- 2,4-Pyrrolicdicarboxylic acid, 5-ethyl 3-propyl-, di Et ester, 3010^a
- C₁₅H₁₇N₃O 3 Pelargonic acid, 6-phenylsulfonamide-, 490^a
- C₁₅H₁₇N₃O₃ Mannosamide, 2,3,6-trimethyl-, 4529^a
- C₁₅H₁₇N₃O₃ Glucosyl 6-amine, acetone tetraacetyl-, 2121^a
- C₁₅H₁₇N₃O₃ Caprylophenone, φ-hydroxy-, semi-carbazone, 1229^a
- 4-Quinone, p-nitrophenylhydrazine, 1663^a
- C₁₅H₁₇ (See also *Caryophyllene*)
Cedrene, 4542^a
- Cedrene, 1513^a, 4512^a
- Clovene, 3639^a
- Fukienene, 1513^a
- Indolene, 1513^a
- Isosquarane, 4542^a
- Mono cyclic sesquiterpene, bp 135-5°, from *alecampane* oil, 2987^a

- Nonane, 1 phenyl 3469^a
 Sesquichalcane, 4542^a
 C₁₁H₁₇BrNO₂S: Butanesulfono-*m* toluide, 6'-bromo 6' - hydroxy, butanesulfonate, 5406^a
 C₁₁H₁₇N₂O Apocynidine, dehydro-, 4275^a
 Lupandine, 3006^a
 Lupanine, 3006^a, 4274^a, and Hf, 3006^a a
 Matrine, 2147^a
 C₁₁H₁₇N₂O₂ -HCl See Pantocaine
 C₁₁H₁₇N₂O₂: Benzoin acid, 3 amino-4-ethoxy-5-diethylaminoethyl ester, -HCl, P 3131^a
 C₁₁H₁₇N₂O₂: 2 Desoxyglutonic acid, 3,4,6 tri methyl, phenylhydrazide, 4231^a
 C₁₁H₁₇N₂O₂: Malonic acid, ureidobis- tetra Et ester, 4853^a, 5398^a
 C₁₁H₁₇N₂O₂S *m* Toluene sulfonic acid, 4 methoxy, Me ester, compd with hexa methylenetetramine, 3322^a
 C₁₁H₁₇N₂O₂: Tripropylamine, picrate 70^a
 C₁₁H₁₇N₂O₂: 2-Butanol, 1-diethylamino-3 methyl, picrate, 2691^a
 Tripropylamine, styphate, 70^a
 C₁₁H₁₇N₂O₂: Spiro[cyclopentane-1,2-andan]-3,4 dione, hexahydro-, diacemcarbazone, 3335^a
 C₁₁H₁₇O Cedreneol, 4512^a
o-Cresol, (α , ϵ γ trimethylsomy), 931^a
 Ether, (α , ϵ and β) tolyl α , ϵ γ trimethylsomy, 931^a
 Phenol, amyl, 1220^a
 Xylenol, heptyl, 924^a
 C₁₁H₁₇O₂ 1 Nonanol, 9-phenylmercapto-, 5395^a
 C₁₁H₁₇O₂: Alantolactone, tetrahydro-, 2987^a, 4005^a
 Benzaldehyde, di Bu acetal, 1798^a
 Desoxyaustone, tetrahydro-, 768^a, 2987^a
 Desoxy- α -tetrahydroaustone, 3350^a
 Phenol, *m*-(amylloxy), 5405^a
 C₁₁H₁₇O₂: 2 Indanacetic acid, 2 acetylhexahydro-, Et ester, 3335^a
 Santonin, hexahydro-, 961^a
 C₁₁H₁₇O₂: Clovenic acid, 3658^a
 2,2-Indandiacetic acid, hexahydro- di Me ester, 2333^a mono-Et ester, 3334^a
 Methyl ester of diketic acid from caryophyllene, 2988^a
 C₁₁H₁₇O₂: Corchoric acid, 3657^a
 C₁₁H₁₇O₂: 1,2-Cyclohexanedicarboxylic acid 3 (carboxymethyl) 2,4-dimethyl, tri-Me ester, 3657^a
 C₁₁H₁₇O₂: Propanetetracarboxylic acid, tetra-Et ester, 1803^a, 2695^a
 C₁₁H₁₇O₂: Anhydroglucose, 5-gluconodiacetone-, 85^a
 C₁₁H₁₇BrN₂O₂: Leucine, N [N [N (N-bromoacetyl)glycyl]glycyl]alanyl, 2697^a
 C₁₁H₁₇ClN₂O: Pentamethonium perchlorate, 1,5-bis-N piperidino-, 1829^a
 C₁₁H₁₇IN₂O: Succinimide, lupinyl, methoxide, 3007^a
 C₁₁H₁₇NO Acetamide, N (dodecacydro-9-fluoryl), 511^a
 C₁₁H₁₇NO₂ Menthylsuccinimide, N hexyl, 2704^a
 C₁₁H₁₇N₂O₂: 2 Indanacetic acid, 2 acetylhexahydro-, semicarbazone, 3335^a
 C₁₁H₁₇N₂S Semicarbazide, 1,2 di sec butyl-4 phenylthio-, 2416^a
 C₁₁H₁₇OP Phosphine β amylidobutyl, 283^a
 C₁₁H₁₇Br: Naphthalene, 1 tris-2-(β -bromo-isopropyl)decacydro- 4 α , 8 - dimethyl-, 2987^a
 C₁₁H₁₇ClN₂O: Isovaleric acid, β [N (N-chloroacetyl)glycyl]glycylamino], 78^a
 C₁₁H₁₇HgI₂P Methylidpropyl 2,5-xylylphosphonium iodide: Hg₂ deriv, 2702^a
 C₁₁H₁₇IF Methylidpropyl 2,5-xylylphosphonium iodide 2702^a
 C₁₁H₁₇IF₂ Methylidpropyl 2,5-xylylphosphonium fluoride, 2702^a
 C₁₁H₁₇N₂ See *Spartine*
 C₁₁H₁₇N₂O Base from lupanine, and salts, 3006^a a
 Pantocaine 3127^a
 C₁₁H₁₇O Cadicol 4542^a
 Caryophyllene alcohol 1332^a
 Cryptomeradol, 2969^a
 Δ^1 Δ^2 1,3 Dodecatrienol 3,7,11 trimethyl, 1795^a
 Fokienol 1513^a
 Maculol, 2959^a
 C₁₁H₁₇O₂: Unsaid glycol, b.p. 165-70°, from reduction of alantolactone 2988^a
 C₁₁H₁₇O₂: Orthoacetic acid, phenyl, Et diisopropyl ester, 2135^a Et di Pr ester 2135^a
 C₁₁H₁₇O₂: Malonic acid, dimethyl, monomethyl ester, 280^a
 C₁₁H₁₇O₂: 1 Cyclobutanedicarboxylic acid, 3-amino, di Et ester 2970^a
 C₁₁H₁₇O₂: 1,3 Propanedicarboxylic acid, 1,2,3 trimethyl, tri Et ester, 82^a
 C₁₁H₁₇O₂: Maltolone, monoacetyl methyl, 86^a
 C₁₁H₁₇NO₂: 9-Fluorylamine, dodecacydro-, acetate, 511^a
 C₁₁H₁₇NO₂: Acetamide, N-cyclohexyl-N-hydroxy β β -dimethylpropyl, acetate 1810^a
 C₁₁H₁₇N₂O: Alanine, alanylalanylalanylalanyl, 6502^a
 C₁₁H₁₇OP₂ (β -Ethylphenyl)methylidpropylphosphonium hydronide, 283^a
 C₁₁H₁₇N₂O₂: Isovaleric acid, β -N (N glycyloxy)glycylamino], 78^a
 C₁₁H₁₇O₂: 2 Naphthalenetetralol, decacydro-1 hydroxy β β β -trimethyl 2987^a
 C₁₁H₁₇O₂: Bulrylic acid γ methyl, 3 β methyl ester, 6672^a
 Epicauphor, 3 hydroxy-3 methyl, di Et acetal, 4571^a
 Isobutyric acid, α methoxy, methyl ester 289^a
 Maculol, dihydroxy, 2989^a
 C₁₁H₁₇O₂: Malonic acid, (α -ethylpropyl)monopropyl, di Et ester, 1219^a
 C₁₁H₁₇BrO₂: Lauric acid, α -bromo-, isopropyl ester, 5663^a Pr ester, 5663^a
 C₁₁H₁₇NO Isovaleramide, N-3- β -methyl, 1233^a
 C₁₁H₁₇ClNO Acetamide, α -chloro-N tridecyl, 4267^a
 C₁₁H₁₇O₂: Pentadecanoic acid, Ag salt, 1483^a
 C₁₁H₁₇NO₂: Lauroic acid, α -amino-, isopropyl ester, 4850^a Pr ester, 4850^a
 C₁₁H₁₇: Dodecane, 6-ethyl 7 methyl, 961^a
 Dodecane, 6 propyl, 961^a
 Hendecane, 4-methyl-6-propyl, 961^a
 Hydrocarbons, b.m. 242^a, from sparteine, 961^a
 C₁₁H₁₇O 6-Dodecanol, 6-ethyl 7 methyl, 961^a
 6-Dodecanol, 6 propyl, 961^a
 6-Hendecanol, 4 methyl-6-propyl, 961^a
 C₁₁H₁₇As Arzene, trisomy, 651^a
 Arzene, tri(β -methylbutyl), 651^a
 C₁₁H₁₇AsBr Arzene, triamyl, dibromide, 1485^a
 C₁₁H₁₇AsCl₂ Arzene, triamyl, dichloride, 1485^a

- C15H33AsO Arane triamyl, oxide 148.²
C15H31Br Bisuthane, triamyl, 297.⁰
C15H31Br CINEF, 34, 4194.¹
C15H31I Triethylaluminum iodide CHI, compd, 282.¹
C15H31NO Pentadecanetriol, amono, 5394.¹
C15H31N Trisoamylammonium chloride 2626.¹
C15H31N Trisoamylammonium iodide, 2626.¹
C15H31CoN3 + 6H₂O 1177.¹
C15H31BrN3O PWN Choline, bromo, phosphonate, 657.¹
C15H31O4PW Choline phosphotungstate, 657.¹
C15H31BrN3O Indigotin, 5,5',6,6' tetrahydro-, 700.¹
C15H31O Anhydride, m 266.¹, from acid formed in oxidation of ergosterol, 114.¹
C15H31BrO3 Benzo[*g*]thiophanthrene-6,11-dione 8-bromo-, 316.¹
C15H31BrO3 3,2-Anthrathione-1,6,11(2) trione, 2-bromo-, 2723.¹
C15H31BrN3 *o*-Benzophenazine, tribromo-, 946.¹
C15H31ClO3 Benzo[*g*]thiophanthrene-6,11-dione, 8-chloro-, 316.¹
C15H31NO4 1 Anthraquinonecarboxylic acid 4-cyano-, 608.¹
C15H31BrN3O (12) Phthalazone, 4 hydroxym, Ba deriv, 4001.¹
C15H31BrN3O Indigotin, 6,6' dibromo-, 700.¹
C15H31ClN3O Pseudouracil(3')-(*)-thiophanthrene 2-one, complex from NaCl, 103.¹
C15H31ClN3O Anthraquinone, 1 trichloroacet amido-, 293.¹
C15H31CoN3O (12) Phthalazone, 4 hydroxym, Co deriv, 4001.¹
C15H31CoN3O (12) Phthalazone, 4-hydroxym, Co deriv, 4001.¹
C15H31N3N3O3 Indigo carmine 3390.¹
C15H31N3O Phthalimide, 4-phthalimido-, 1511.¹
C15H31N3O3 Benzo[*e*]phenothiazine 9,11-dione, 3331.¹, 3338.¹
C15H31N3O 2,2-Stilbenedinitrile 4,4-dinitro-, 3644.¹
C15H31N3N3O (12) Phthalazone 4 hydroxy nitro-, Ni deriv, 4001.¹
C15H31O3 Benzo[*g*]thiophanthrene-6,11-dione 3165.¹
C15H31O3 See *Thionidog red*
C15H31O3 2,6-methoxyanthraquinone-3-carboxylic acid, 6-keto- P 5177.¹
C15H31O3 3,2-m-Anthrathione 1,6,11(2) trione 2723.¹
C15H31O Anthracenedicarboxylic acid 9-hydroxy, lactone 950.¹
C15H31O3 Benzo[*g*]thiophanthrene-6,11-dione dihydroxy, 3166.¹
C15H31O3 Diphtalyl disulfide 93b
C15H31O 1,4-Anthracenedicarboxylic acid 9,10-dihydroxy, mono-*γ*-lactone 60.¹
C15H31O3 Pseudoanthraquinone 1,2 dicarboxylic acid lactone 949, 950.¹
C15H31O3 Benzo[*g*]thiophanthrene-6,11-dione, 7,8,10 (or 7,9,10) trihydroxy, 3166.¹
C15H31O3 Benzo[*g*]thiophanthraquinone acid 6,11-dihydro-6,11-diketo- and Na salt 5165.¹
C15H31O Anthraquinone carboxylic acid 609, 949, 950.¹
C15H31O 1,1 (2,2) *γ*-pyrrole(isobenzofuran) - 3 carboxylic acid, 2,2-diketo-, 5416.¹
C15H31Br Fluoranthene, bromo-, 3163.¹
- C15H31BrN *o*-Benzophenazine, 5-bromo-, 94.¹
C15H31BrN3O Indirubin, bromo-, 1522.¹
C15H31BrO3 Benzo[*e*]phenothiazine, 10-bromo-, 3338.¹
C15H31BrO3 1 Thionaphthene carboxylic acid 2-(*p*-bromobenzoyl), 5165.¹
C15H31BrN3O Cinchonphen, 6,8-dibromo-, 960.¹
C15H31BrN3O 1,4-Naphthoquinone, 3,6-dibromo-2-hydroxy, 948.¹
C15H31BrN3O 1,4-Naphthoquinone, 2-antho-6,8-dibromo-5-hydroxy, 512.¹
C15H31BrN3O 1,4-Naphthoquinone, 6-amino-aminotribromo-, 1316.¹
C15H31ClO3 1 Thionaphthene carboxylic acid, 2 *p*-chlorobenzoyl, 5165.¹
C15H31ClO3 1 Anthraquinone carboxylic acid, 4-chloro- Me ester, 3841.¹
C15H31NO Anthra[2,1-*β*]pyrrole-1,2 dione, 948.¹
C15H31NO Fluoranthene, 3-nitro-, 3163.¹
C15H31NO3 Benzo[*g*]thiophanthrene-6,11-dione, amono-, 5166.¹, 5167.¹
C15H31NO3 2 Thionaphthene carboxylic acid, 1-anthra-norl cyclic lactam, 5167.¹
C15H31NO3 Anthr[2,1-*β*] *p*-isothiazine-2,7,12(3) trione 2723.¹
C15H31NO3 Benzo[*g*]thiophanthrene 6,11-dione, 7 (and 10) amono-10 (and 7) hydroxy-, 5164.¹
C15H31NO Anthra[1,10-*β*]pyrrole 4 carboxylic acid, 2,6-dihydro-3 hydroxy-6-keto- 1243.¹
C15H31NO3 2-Thionaphthene carboxylic acid, 1-(*m* and *p*) nitrobenzoyl 5166.¹
C15H31 Fluoranthene 1244.¹, 3163.¹
C15H31BrN3O Cinchonphen, 4' bromo-, 960.¹
C15H31BrN3O 1,4-Naphthoquinone, bromo-2 hydroxy *V* phenyl, 949, 948.¹
C15H31BrN3O 1,4-Naphthoquinone, 2-amino-6-bromo-5-hydroxy, 512.¹
C15H31BrO3 2 Naphthol, 1 (2,5-dibromophenyl mercapto), 3338.¹
C15H31CaN3O (12) Phthalazone, 4-hydroxy, Ca deriv 4001.¹
C15H31ClNO3 Anthraquinone 1 amono-2 (*β*-chlorovinylmercapto), 2724.¹
C15H31ClNO3 Anthraquinone 1-chloroacet amido-, 293.¹
C15H31ClN3 Quinaldine, *m* 3 dichloro-5-iodo-4-*p*-iodoamino-, and HCl, 2439.¹
C15H31ClN3 Compd, *m* 179.¹, from *m*, *m*-dichloroacetanilide 2439.¹
C15H31ClN3O Glyoxime, dichloro-, di Br deriv, 80.¹
C15H31ClO Benzene acid 2,6' dichloro 5-methoxy 2,4-carboxylic, P 2154.¹
C15H31CoN3O (12) Phthalazone, 4 hydroxy, Co deriv, 4001.¹
C15H31CuN3O (12) Phthalazone 4 hydroxy Cu deriv, 4001.¹
C15H31FN3O Naphthalene 1 (and 2) fluoro-, decate, 4544.¹
C15H31NO Cinchonphen, iodo- 3066.¹
C15H31N3 2,2-Stilbenedinitrile, 3644.¹
C15H31N3N3O Indigotin, Na deriv, compd with NaOH 103.¹
C15H31N3O See *Indigotin*
C15H31N3O3 Benzo[*g*]thiophanthrene 6,11-dione, 7,10-dimono-, 5166.¹
C15H31N3O Purazone, 3,4-dihydroxy, 3333.¹
C15H31N3O 2(4)-Oxazolone, 3 (*o*-nitrobenzyl) 2-phenyl, 3347.¹
C15H31N3O3 2(1) Naphthalene, 1 nitro-1 (nitrophenylmercapto), 422.¹

- 2 Naphthol, nitro-1 (naphthylmercaptol) 4257¹
- C₁₅H₁₁N₃O₂ 1(2) Phthalazone 4 hydroxy N₂ deriv. 4001¹
- C₁₅H₁₁N₃O₂ Cinchonumyl acide 6-hydroxy 2 phenyl, 4553¹
- C₁₅H₁₁N₃O₂ 2 Naphthylamine A peryl 855¹
- C₁₅H₁₁N₃O₂ Fluorazine, 957¹
- C₁₅H₁₁N₃O₂ 1 3,4-Oxadiazole 2 2 azobis[5 phenyl], 498¹
- C₁₅H₁₁O₃ 3 Fluoranthanol 5163¹
- C₁₅H₁₁O₃ Bepin(=phenanthrene), 2335¹
- Benzo[β]thiophanthrene 5168¹
- C₁₅H₁₁O₃ Benzene acid, α-(1 thionaphthyl carboxyl) 5165¹
- Fluoranthene sulfonic acid, 5163¹
- Thionaphthene carboxylic acid benzoyl 5165¹, 5165¹
- C₁₅H₁₁O₃ Anthracenedicarboxylic acid 9-hydroxy, 9508¹ A
- 2 Anthraquinonecarboxylic acid 4 methoxy, P 3361¹
- C₁₅H₁₁O₃ Anthracenedicarboxylic acid 9 10-di hydroxy, 9371 949¹
- Phthalic acid, 3 phthalidyl 5415¹
- C₁₅H₁₁O₃ Compd m 337 8¹ from roots of *Euphorbia formosana* 4570¹
- C₁₅H₁₁O₃ 2 2 4 5 Biphenyltetracarboxylic acid, 3 4 6 trihydroxy 291¹
- C₁₅H₁₁O₃ Baene[β]thiophanthrene 5165¹
- C₁₅H₁₁Br₂N₃O₂ Phthalazone 2 6 dibromo-4 amino-3-phenyl Ac deriv 4773¹
- C₁₅H₁₁Br₂N₃O₂ Phthalazone 2 (2 6-dibromo 4 nitrophenyl) 1 2 dihydro 4 methoxy 1 methylene, 4273¹
- O₂H₁₁Br₂N₃O₂ Phthalazone 4 acetic acid 1 hydroxy-3 (2 6-dibromo-4 nitrophenyl) 1,3 dihydro, 4273¹
- C₁₅H₁₁Br₂N₃O₂ Phthalazone-1 sulfonic-4 acetic acid 3 (2,6'-dibromo 4 nitrophenyl) 1,3-dihydro-, mono-Na salt, 4273¹
- C₁₅H₁₁Br₂N₃O₂ 1,4,5 Naphthalenetriol, 2 6 8 tri bromo-, triacetate, 517¹
- C₁₅H₁₁Cl₂N₃O₂ 2 6 Naphthalenediol, 1-chloro 5-phenylazo-, 5152¹
- C₁₅H₁₁Cl₂N₃O₂ Glyoxime, chloro- di Br deriv 79¹
- C₁₅H₁₁ClO₂ Anthraquinone 5-chloro 1 4 di methoxy, 3648¹
- C₁₅H₁₁ClO₂ Benzene acid chloromethoxy carbonyl, P 2154¹ A
- C₁₅H₁₁Cl₂N₃O₂ Phthalazone-1-one, 2' 6 dichloro 4 amino-3 phenyl, Ac deriv 4273¹
- C₁₅H₁₁Cl₂N₃O₂ Phthalazone 2 (2 6-dichloro-4 nitrophenyl) - 1 2-dihydro 4 methoxy 1 methylene, 4273¹
- C₁₅H₁₁Cl₂N₃O₂ Phthalazone 4 acetic acid 1 hydroxy - 3 (2 6 dichloro 4 nitrophenyl) 1,3-dihydro-, 4273¹
- C₁₅H₁₁Cl₂N₃O₂ Phthalazone-1 sulfonic 4 acetic acid, 3 (2,6 - dichloro 4 nitrophenyl) 1 3 - dihydro-, mono-Na salt 4273¹
- C₁₅H₁₁Cl₂N₃O₂ Desoxyindigo, complex from SnCl₄ 103¹
- C₁₅H₁₁N 4-Benzocarbazole, 2722¹
- 3 Fluorenylbenzene and HCl, 5163¹
- Iodene[3,2 β]quinoline, 1233¹
- C₁₅H₁₁NO₂ (See also Cinchophen)
- Atropine, β-hydroxy, benzate, 4541¹
- Benzene acid p 2 quinoyl, 5427¹
- Kelone, 8-hydroxy-5-quinoyl phenyl, and deriv., 109¹
- 3 Quinolene carboxylic acid, 2-phenyl, 5427¹
- 5 Quinolene benzoate, and HCl, 109¹
- C₁₅H₁₁NO₂ 1,2 Benzenepyan-3-carboxamide, 2 keto- 5671¹
- Cinchophen hydrazyl, 4883¹ 4900¹
- 1 Iodone 2-α-nitrobenzyl, 1233¹
- C₁₅H₁₁NO₂ 2 Thionaphthene carboxylic acid 1 [m (and p) aminobenzoxy] 5167¹
- 2 Thionaphthene carboxylic acid, 1 anthranoyl 5167¹
- C₁₅H₁₁NO₂ 2 Anthraquinone carboxylic acid 1 amino- Me ester P 0657, P 2435¹
- Cinchophen 2 4-dihydrazyl, 700¹
- C₁₅H₁₁NO₂ Acetic acid (1 amino-2-anthraquinonylmercaptol) Na salt 2723¹
- C₁₅H₁₁NO₂ 2 Anthraquinone carboxylic acid, 4-(aminomethyl) 3 hydroxy, 1242¹
- 1 Benzofuran carboxylic acid, 2 nitrobenzoate 1246¹
- C₁₅H₁₁NO₂ Phthalide 4 hydroxy-3 methoxy nitrobenzoate 2150¹
- C₁₅H₁₁NO₂ Indigotin compd with NaOH 103¹
- C₁₅H₁₁N₃ 3 Quinacrine 2 amino- 1253¹
- C₁₅H₁₁N₃O₂ Pyrazol[4 β]quinolin 3(5)-one 4 phenyl 1830¹
- C₁₅H₁₁N₃O₂ (See also Para red)
- Cinnamamide α cyano-α-nitro-, 1253¹
- C₁₅H₁₁N₃O₂ Benzene acid (1 2 3,4 tetrahydro-1 3-diketo-4 isooquinoyl) 3648¹
- C₁₅H₁₁N₃O₂ Phthalimide N amsalemmo-, 1611¹
- C₁₅H₁₁N₃O₂ 2 Naphthol 3 sulfonic acid 1 (p nitrophenyl) Na salt 2136¹
- C₁₅H₁₁N₃O₂ Naphthalene picate, 1515¹ 5603¹
- C₁₅H₁₁N₃O₂ Naphthol picate, 1515¹
- C₁₅H₁₁N₃O₂ 2 Triazole[3,4 β]quinazoline 5(1) one, 3 methyl 1 (p nitrophenyl), 3661¹
- C₁₅H₁₁AsCl Arison, chloro-1 naphthylphenyl 1515¹
- C₁₅H₁₁BrNO Quinone 4-bromo-6-methoxy 2-phenyl, 4884¹
- C₁₅H₁₁BrNO Anthraquinone 1 (β bromomethyl) amino-, 947¹
- C₁₅H₁₁Br₂ Anthracene 9,10 dibromo 2 3 di methyl, 3648¹
- Dibromo deriv., does not m 310¹, of hydrocarbon m 179-80¹ 1235¹
- C₁₅H₁₁Br₂NO₂ p Toluquinone, 3,6-dibromo 6 (4 bromo-5-nitro-2-methyl), 5410¹
- C₁₅H₁₁Br₂O₂ Glutamic acid, α bromo-γ, γ dihydroxy β methyl, γ lactone, (3,4 5-tri bromo-2 6-dimethoxyphenyl) ester, acetate(?) 1229¹
- Glutamic acid α-bromo-γ-keto β methyl, γ-hydroxy with acetic acid, (3 4 5-tri bromo-2 6-dimethoxyphenyl) ester(?) 1229¹
- C₁₅H₁₁ClNO Quinone 4-chloro-6-methoxy 2 phenyl, 4884¹
- C₁₅H₁₁ClNO Phenol 4 (2 amino 1 naphthyl azo)-3-chloro-, 4539¹
- C₁₅H₁₁ClNO₂ 4 Pyrazolol 1 (p-chlorophenyl) 5-methyl-, picate, 3342¹
- C₁₅H₁₁Cl₂N₃ Quinaldine, 4 amino-α-β-dichloro-, and -HCl, 2430¹
- C₁₅H₁₁Cl₂N₃O₂ Crotonic acid γ, γ-diamino-α, β-dichloro-γ hydroxy, γ lactone, 4225¹
- Isoprotic acid, γ γ-diamino-α, β-dichloro-γ hydroxy-, γ lactone, 4225¹
- Maleimide, α, β-dichloro-, 4225¹
- Phthalimide 2 (4 acetamido-2 6-dichloro phenyl), 4273¹
- C₁₅H₁₁Cl₂O₂ Glutamic acid, α chloro-γ γ-di

- hydroxy β methoxy, γ -lactone, (3,4,5-trichloro-2,6-dimethoxyphenyl) ester, acetate(?), 1229²
- Chluzaconic acid α -chloro- γ -keto- β methoxy, anhydride with acetic acid (3,4,5-trichloro-2,6-dimethoxyphenyl) ester(?), 1229²
- C₁₅H₁₂FN₂O₅S Naphthalenesulfonamide, fluoro-, 4544¹ 4545¹
- C₁₅H₁₂F₂N₂O₅ Diphenyl 2,2'-difluoro-3,3',5,5'-tetraamethyl 4,4',6,6' - tetraazuro-, 2¹¹c
- C₁₅H₁₂INO Quinolone, 4-iodo-6-methoxy 2-phenyl 4534¹
- C₁₅H₁₂MON₂ 1404¹
- C₁₅H₁₂N₂ Naphthalene 2-phenylazo-, 5155¹
- C₁₅H₁₂N₂O 6(2) *meta*-Antispyrazolone, 2,3-di-methyl P 28,8²
- Naphthol phenylazo-, 5151¹, *addn compound* 3322¹
- C₁₅H₁₂N₂O₂ Indigo white P 1039¹ P 3299¹
- Ketone 5-hydroxy-5-quinolyl phenyl, oxime, 106¹
- Phthalazine, 1 benzyl 5,7-methoxydiethoxy 2¹ 29¹
- Quinaldine, nitro-*p*-phenyl, 1039¹
- 3-Quinolonecarboxamide, 1 4-dihydro-4-keto-2-phenyl, 1530¹
- 5-Quinolonecarboxamide, 3-hydroxy, and sulfate 222¹
- 8-Quinolol, 5 benzamide-, and acid sulfate 904¹
- C₁₅H₁₂N₂O₂ Itatide, 2733¹
- Δ^1 -Oxalolone 4,5-epoxy-4-methyl 2 [(*m* and *p*) nitrophenyl] 5-phenyl, 296¹
- Phthalimide *N* [(*p*) nitrophenyl], 4240¹
- 2,3-Pyrrolidinedione, 1 [(*o*-nitrophenyl] 3-phenyl 692¹
- C₁₅H₁₂N₂O₃ α Naphthol orange, 2993¹
- 2 Naphthol 3-sulfonic acid, 1 phenylazo-, *As salt* 2138¹
- C₁₅H₁₂N₂O₂ Malonamic acid, α - α -nateobenzal-, 5671¹
- C₁₅H₁₂N₂ Compd ϵ m 262¹, from compd m 208¹, 5628¹
- C₁₅H₁₂N₂O₂ 2 Anthraldehyde 1-amino-9,10-di-hydro-9,10-diketo-, azomcarbazone, 91¹
- C₁₅H₁₂N₂O₂ 1,3(2,4) Isoquinoline, 4 (nitro-*p*-tolylazo) 2648¹
- Pyrazole, 1 (2,4-dinitrophenyl) - 3(or 5) methyl-5(or 3) phenyl, 3320¹
- C₁₅H₁₂N₂O₂ 1,3 4 Oxidazole, 2,2 hydrazobis(5-phenyl) 468¹
- C₁₅H₁₂O Propiophenone, *p*-methyl β -phenyl, 2145¹
- C₁₅H₁₂O Anthraquinone dimethyl, 3510¹
- Δ^1 -1,4-Butenedione, 1 4-diphenyl, 83¹
- β Butenone acid, γ hydroxy- α - γ -diphenyl lactone, 3324¹
- Crotonic acid γ hydroxy- α - γ -diphenyl, lactone, 3324¹
- Cyclopropanecarboxylic acid 2 hydroxy 2 3 diphenyl, β lactone, 1509¹
- C₁₅H₁₂O₂ Coumarin, methoxyphenyl 2710¹
- Flavone, 7 hydroxy-3-methyl, 4251¹
- 1 Fluorenepropionic acid 9 keto-(7), 2097¹
- Hieraria 3-phenyl, 4041¹
- 1,4- α -Naphthopynone, 3 acetyl 2 methyl, 426¹
- Phenanthrene methoxymethylmethoxy-, 3653¹, 3655¹
- Umbelliferone, 5-methyl-3-phenyl-, 4541¹
- C₁₅H₁₂O₂ Anthraquinone, dimethoxy, 1519¹, 2140¹
- 4 Chromanone, 3-(3,4-dihydroxybenzyl)-, 1554¹
- Chrysan, 3 methyl 4200¹
- Daidzein, 2 methyl, 3327¹
- Isoflavone, 7 hydroxy-4' methoxy, 5673¹
- 1,2 β -Naphthopropyl-3-carboxylic acid, 2 keto-, Et ester, 2146¹
- Phenanthrenequinone, 2,3 dimethoxy 1243¹
- C₁₅H₁₂O₃ 3- α Naphthothiophenol, 6-(carboxymethyl)carboxyl, acetate, 3341¹
- C₁₅H₁₂O₄ Benzil, 4' methoxy-3 4-methylethoxy, 4876¹
- 4 Chromanone, 3-(3,4-dihydroxybenzyl) γ hydroxy, 1531¹
- Isoflavone, 5,7 dihydroxy - 4' - methoxy 5670¹
- Ketodibasic acid, m 304-8¹, from compd, m 26-7¹, 1233¹
- Phthalide, 4 hydroxy-3-methoxy ϵ benzoic, 2150¹
- Wogonin, 152¹
- C₁₅H₁₂O₂ Benzoic acid, methoxycarboxylate, P 2154¹
- 4 Chromanone, 3 (2 4-dihydroxybenzyl) 7,8-dihydroxy-, 1534¹
- Tectorigenin 339¹
- C₁₅H₁₂N₂O₂ Phthalimide, 2 (4 acetamido-2 bromophenyl) 4275¹
- C₁₅H₁₂Br₂O Anthrone, 10-bromodimethyl-, 2994¹, 3646¹, 4547¹
- C₁₅H₁₂Br₂O Chalcone, bromo-4' methoxy, 1819¹
- C₁₅H₁₂Br₂N₂O *p*-Phenetidine, 2,5-dibromo-*N* piperonylbenzene 256¹
- C₁₅H₁₂Br₂O₂ *p*-Telonequinone, 3,6-dibromo-5-(4-bromo-2-methyl), 5410¹
- C₁₅H₁₂Cl₂MO₂N₂O₃ 3,557¹
- C₁₅H₁₂Cl₂ Quinaldine, 4 amino-3-chloro-2430¹
- C₁₅H₁₂Cl₂N₂O 2 Quinolonecarbinol, 4-sulfo-3-chloro-, 2430¹
- C₁₅H₁₂Cl₂N₂O₂ 1 Methyl 2 (*m* nitrophenyl)quinolineum chloride, 299¹
- C₁₅H₁₂Cl₂N₂O₃ 4 Pyrazolol, 5-methyl 1 phenyl, β -chlorobenzenesulfonate, 3342¹
- C₁₅H₁₂Cl₂O Methylsilylium chloride, and FeCl₃ deriv, 5413¹
- C₁₅H₁₂Cl₂O₂ Methylsilylium chloride, 513¹ and FeCl₃ deriv, 5413¹
- C₁₅H₁₂Cl₂O₂ + 2H₂O 3-Hydroxy-4' methoxy silylium chloride, 513¹
- C₁₅H₁₂Cl₂FeO Methylsilylium chloride, FeCl₃ deriv, 5413¹
- C₁₅H₁₂Cl₂FeO₂ 3-Methylsilylium chloride FeCl₃ deriv, 5413¹
- C₁₅H₁₂N₂ α Benzenecarbazole 5,6-dihydro-, 2¹22¹
- 2 Naphthylamine, *N* phenyl, 1501¹, 6010¹
- C₁₅H₁₂N₂O Acrylonitrile, α *p* phenyl β phenyl, 501¹
- β Butenamic acid, γ hydroxy- α - γ -diphenyl, lactone, 3325¹
- Crotonamic acid, γ hydroxy- α - γ -diphenyl, lactone 3325¹
- 2 Naphthol 6-amino-, P 5011¹
- Oxamide, 3 benzil 1 methyl, 293¹
- α -Toluenetriol, α phenacyl, 3324¹
- C₁₅H₁₂N₂O₂ Acrylonitrile, β hydroxyamyl- α -phenyl, 2710¹
- Δ^1 Oxalolone, 4,5-epoxy-4-methyl 2,3-diphenyl, and -HCl, 294¹

- Pseudomatin, 8-methyl 1 *p*-tolyl-, 294^a
 2 3-Pyrrolidinedione, 1,5-diphenyl-, 699^a
 4(1) Quinolone, 6-methoxy 2 phenyl-, 1830^a
 C₁₆H₁₄N₂O₂ Cinnamamide, 2,4-methylenedioxy-, 5671^a
 Cinnamic acid, α -benzamide-, 1508^a, 2143^a
 3,4-Oxazoline, 4,5-epoxy-4-methyl 5-phenyl-2-subst., 294^a
 8(7) Pyrrolidinone, 3,6-dihydro-7-piperonylidene-, 1521^a
 C₁₆H₁₄N₂O₃ 2 Naphthol 3-sulfonamide, 2138^a
 C₁₆H₁₄N₂O₄ Anthraquinone, 5-amino-1,4-dimethoxy-, 3643^a
 Cinnamic acid α -benzamidohydroxy-, 1508^a
 C₁₆H₁₄N₂O₅ 3 β -Naphtholcarboxylic acid, 2,3,4,6-tetrahydro 2,4,9-triketo 1-methyl-, Et ester, 1824^a
 Oxime m 2140^a, of ketodibane acid m 304-5^a, 1232^a
 C₁₆H₁₄N₂O₆ Diacetate, m 183^a, of compd from monokumamine, 298^a
 C₁₆H₁₄N₂O₇ 4(3) Quinoxaline, 3-ethylidencarbazole-2-phenyl-, 4582^a
 C₁₆H₁₄N₂O₈ Cinchophen, 6-hydroxy-, hydrazide, 4553^a
 1 3(2,4) Isoquinolinedione, 4-tolyliso-, 3648^a
 C₁₆H₁₄N₂O₉ Phthalazine, 1 2-dihydro-4-methoxy 1-methylene 2-(*p*-nitrophenyl)-, 4272^a, 4273^a
 C₁₆H₁₄N₂O₁₀ Glyoxime, stucco-, d:Ba deriv., 51^a
 C₁₆H₁₄N₂O₁₁ 2 Thiazolealdehyde 4-phenylphenylhydrazones 2722^a
 O₁₆H₁₄N₂O₁₂ 1 2 4 Oxadiazole, 3-benzoyl 5-phenyl, semicarbazone, 3623^a
 C₁₆H₁₄N₂O₁₃ Anthranic acid, N [3-methyl 1 (*p*-nitrophenyl) 5(4) 1,2,4-triazolidene], 3651^a
 Pyrazolobenzotriazine, 4,5-dihydro-6-hydroxy 2-methyl 7-nitro 4-phenyl, 5-oxide, 1240^a
 C₁₆H₁₄N₂O₁₄ 4-Pyrazolol, 6-methyl 1-phenyl, picrate, 3342^a
 C₁₆H₁₄N₂O₁₅ 2 2 Triazinemercaptan, 4-amino-6-benzyl, picrate, 2730^a
 2 2 Triazinemercaptan, 4-amino-6-tolyl, picrate, 1531^a
 C₁₆H₁₄N₂O₁₆ 2 2 Triazinemercaptan, 4-amino-6-*p*-amyl-, picrate, 1531^a
 C₁₆H₁₄ Anthracene, dimethyl-, 3310^a, 3646^a, 4547^a
 1,3-Butadiene, 1,4-diphenyl-, 1719^a
 Fluoranthene, tetrahydro-, 1244^a, 2907^a
 Hydrocarbon m 179-50^a, from reaction of (C₁₆H₁₄Cl)₂ and AlCl₃ m CaH₂, 1235^a
 Phenanthrene, 1,7-dimethyl-, 1232^a, 2137^a
 Pymanthene, 2139^a
 C₁₆H₁₄As₂N₂O₃ 3,5-Xylenearsonic acid, 4-hydroxy α -phthalimide-, F 714^a
 C₁₆H₁₄As₂N₂O₄ Benzenearsonic acid, β -(3-hydroxy 2-methyl-4-quinolylazo)-, 4937^a
 C₁₆H₁₄As₂Cl₂N₂O₄ Acetamide, 3 3-arsenobis(3-chloro 6-hydroxy-, F 559^a
 C₁₆H₁₄As₂Cl₂N₂O₅ Benzaldehyde, 4,4'-arsenobis[2-chloro-3-hydroxy-, histiosemicarbazone P 967^a
 C₁₆H₁₄As₂N₂O₆ Acetamide, 2,3-arsenobis[6-hydroxy 5-oxo-, P 382^a
 C₁₆H₁₄Br₂N₂O₂ Chalcone, bromo-4'-methoxy, oxime, 1519^a
 β Cinnamamide, β -bromo-, 1519^a
 C₁₆H₁₄Br₂N₂O₂ β Toluquinone, 5-(4-amino 6-bromo-2-methyl) 3 6-dibromo-, 5410^a
 C₁₆H₁₄Br₂N₂O₄ β -Toluhydraquinone, 3 6-dibromo 5 (4-bromo 6-nitro 2-methyl), 5410^a
 C₁₆H₁₄Cl₂N₂O₂ Benzal, 4-chloro-4'-dimethylamino-, 4574^a
 C₁₆H₁₄Cl₂N₂O₃ Acetanilide, α -chloro- α -hydroxy-, α -toluate, 1513^a
 Diacetamide, α -(*p*-chlorophenoxy)-, 2703^a
 α Toluamide, α -hydrazyl-, chloroacetate, 1513^a
 α -Toluic acid α -(3-acetamido-4-chlorophenyl)-, F 5041^a
 C₁₆H₁₄Cl₂N₂O₄ Cetonamide, chloro(chloroamino) 2126^a
 C₁₆H₁₄Cl₂N₂O₅ Ethane 1,1-dichloro-2,2-bis(5-nitro- α -amyl)-, 5412^a
 C₁₆H₁₄Cl₂O₆ 3 4-Xylenesulfonic acid, 5-(chlorosulfonyl) 2-hydroxy-, biphenyl cyclic sulfonyle, 691^a
 C₁₆H₁₄F₂N₂O₄ Biphenyl, 2 2-difluoro-3 3',5,5'-tetramethyl 6 6'-diastro-, 2711^a
 C₁₆H₁₄INO₂ Diacetamide, α -(*p*-iodophenoxy)-, 2703^a
 C₁₆H₁₄MgO₂ α -Vandim, Mg salt, 2131^a
 C₁₆H₁₄N₂ Dandole 164^a
 Quinaldine amine-4-phenyl-, 1530^a HCl, 4625^a
 C₁₆H₁₄N₂O₂ α Benzocarbazole, 5,6,6a,11a-tetrahydro-11-nitroso-, 5675^a
 Phthalazone, 1-benzyl 7-methoxy-, 297^a
 2 Pyrrolidone 1-phenyl 5-(phenylamino)-, 3345^a
 Quinche 4-amino-6-methoxy 2-phenyl, and HCl, 4534^a
 C₁₆H₁₄N₂O₃ 2 4(1 3) Quinoxalinedione, 2-thio-3-aryl-, 3002^a
 C₁₆H₁₄N₂O₄ 6-Acridinecarboxylic acid, Et ester, 4271^a
 Phthalimide, N (*p*-aminophenethyl)-, HCl, 4241^a
 2,5-Piperazinedione, 3,6-diphenyl-, 83^a
 2,3-Pyrrolidinedione, 1-amino-5-phenyl-, 699^a
 C₁₆H₁₄N₂O₅ α Toluic acid, piperoylidenehydrazide 297^a
 C₁₆H₁₄N₂O₆ 4-Quinoxalinecarboxylic acid 1,2 3,4-tetrahydro 4-hydroxy-2-thio-3-tolyl-, 3323^a
 C₁₆H₁₄N₂O₇ Anthraquinone, 1,4-diamino-5 6-dimethyl-, 3645^a
 C₁₆H₁₄N₂O₈ Anthranic acid, N-acetyl 5-nitro-, benzyl ester, 4244^a
 C₁₆H₁₄N₂O₉ 3,1(2) 2' Bibenzosulfonazole, 1'-acetyl 1',2'-dihydro-, 928^a
 C₁₆H₁₄N₂O₁₀ 309^a
 C₁₆H₁₄N₂O₁₁ Benzenesulfonic acid, α -(4,5-dihydro-3-keto-3-methyl 4-phenyl azo-1-pyrazolyl) 502^a
 C₁₆H₁₄N₂O₁₂ Crotanamide, nitro(nitroamino)-, 2126^a
 C₁₆H₁₄N₂O₁₃ Indole, dimethyl-, picrate, 2731^a
 C₁₆H₁₄N₂O₁₄ Glycol, bis(*p*-nitrocarbamate), 2655^a
 Tryptophol, picrate, 614^a
 C₁₆H₁₄N₂O₁₅ Pyrazolobenzotriazine, 4-amino-4,5-dihydro 5-hydroxy-2-methyl 7-nitro-, 5-oxide, 1240^a
 C₁₆H₁₄N₂O₁₆ α Triazine, 2,4-diamino-6-benzyl-, picrate, 959^a
 α Triazone, 2 4-diamino-6-m (and β) tolyl-, picrate, 957^a, 958^a

- C₁₄H₁₄O Anthrone dimethyl 3646¹, 4546²
 Dypnone, 3312³
 3 Fluoranthanol, 1,2,3,10b tetrahydro, 5163⁴
- C₁₄H₁₄O₂ Acrylic acid diphenyl, Me ester, 2143¹
 1 4 Butanedione, 1,4-diphenyl, 83¹
 1 Indacarbonylic acid, 3-phenyl, 1517²
 1 3 Propanedione, 2 methyl 1,3 diphenyl, 3642³
 —, 1 phenyl 3-*p*-tolyl- 1528⁴
p Tolu 4236⁵
- C₁₄H₁₄O₃ 9 Anthrol, dimethoxy, 1519¹, 1520²
 Anthrone dimethoxy 1519¹, 1520²
 Benzoic acid, *o*-2,5-xylolyl 638³, 599⁴
 1 3(2) Benzonaphthenedione 4 hydroxy 2 propyl, 2140⁵
 Benzenophenone 3 acetyl 2 hydroxy 5 methyl 3634¹
 — 2 hydroxy-5-methyl, acetate, 3634¹
 Butyric acid *o*-2,5-heto-*p*-phenyl 1806²
 Cyclopropanecarboxylic acid 2 hydroxy 2,3-diphenyl 1806²
 Lactaldehyde, *p* phenyl, benzoate, 1820¹
 2 4 Pentanedione, 3 163 hydroxy 2-naphthyl)methylenal, 2146⁵
 Pyrocatechol 4 propenyl, monobenzoate, 5186²
 Pyruvic acid diphenyl, Me ester, 941³
o-Toluic anhydride, 1906⁴
- C₁₄H₁₄O₃ Thioanthrone 1,2,3 dimethoxy 4 methyl, *add* *cf* HCl, 2725¹
- C₁₄H₁₄O₄ Alkanone 3419¹
 9,10-Anthradol, 1,2-dimethoxy, 1520²
 Anthraquinone, 1,2,3,4 tetrahydro-6 hydroxy, acetate, 399³
 9 Anthrone, 10 hydroxy 1,5-dimethoxy 1519¹
 Benzil, dimethoxy 1243⁴, 6376⁵
 Benzyl alcohol, *o* methyl II phthalate 386¹
p *p* Biphenol diacetate, 423²
 Glycol dibenzoate, 3311³
- C₁₄H₁₄O₅ (See also Benzilic)
 Benzoic acid *o*-veratroyl, 934¹
 Benzoin, 4 methoxy 3,4 methylcarboxy 4876¹
 4 Chromanone, 2 (3 4 dihydroxybenzyl)-7-hydroxy, 1334²
 Isophthalic acid, 4-methoxy 6 methyl 2-phenyl, 3327³
 Fluoroprophenone benzoate 4250⁴
 Phylloquinone 288⁵, 3979⁶, 5168⁷
 Suberyl acid 6-(3-hydroxy-4 methoxy styryl), 5158⁸
- C₁₄H₁₄O₆ Thioanthrone, 1,2 dimethoxy 4 methyl, 10-dioxo, 2725¹
- C₁₄H₁₄O₇ (See also Dimethylol)
 Acetic acid, *o*-*p*-(*p*-hydroxybenzoyl)benzoic acid, 4253¹
 Benzoic acid, 4-ethoxy-3 4'-oxylol, 960²
 4-Chromanone, 3 (3 4-dihydroxybenzyl) 7 8-dihydroxy, 1534³
 Homocrocinol, 3393⁴
 1,2 5-hydroxybenzylcarboxylic acid, tri Me ester, 1237⁵
- C₁₄H₁₄O₈ + 2H₂O *o*-Vanillin, Zn salt, 2131¹
- C₁₄H₁₄O₉ Chromone, 2-acetyl 7,8-dihydroxy 2 methyl, diacetate, 5671¹
 Compd, m 127², from acetylation of phloracetophenone, 4250⁴
 Compd, m 131³, from acetylation of phloracetophenone, 4250⁴
- C₁₄H₁₄O₉ Benzoic acid, 3,3'-sulfonylbis(4-methoxy, 2126¹
 C₁₄H₁₄AN₃O₃ Benzenearsonic acid, *p*-(5-hydroxy-3-methyl-1-phenyl-4-pyrazolylazo), 4937²
 C₁₄H₁₄Br₂O₃ Benzothiazole, 3 bromo-5-methyl 1 *p*-phenyldiimino, 1047¹
 C₁₄H₁₄BrO₂ Butyrophene, *o* bromo-*p* phenyl, 91¹
 C₁₄H₁₄BrO₄ *p*-Toluquinone, 5-(4-bromo-2-methyl)-3 6-dihydroxy, 3410¹
 C₁₄H₁₄Br₂N₂O₃ 1 Phthalazoacetic acid, 2 (4-amino-2,6-dibromophenyl) 1,2,3,4-tetrahydro-4 hydroxy, 4273²
 C₁₄H₁₄Br₂O₄ *p*-Toluquinone, 3,6-dibromo-5-(4 bromo-2-methyl)-, 3410¹
 C₁₄H₁₄ClO₂ Guaiacol, 4 (*o*-chloroethyl), benzoate, 4245¹
 C₁₄H₁₄ClO₃ Benzoin, 2'-chloro-3,4-dimethoxy, 2902²
 C₁₄H₁₄Cl₂O₃ 1 Phthalazoacetic acid, 2-(4-amino-2,6-dichlorophenyl) 1,2,3,4-tetrahydro-4 hydroxy, 4273²
 C₁₄H₁₄Cl₂O₄ Δ^1 ,4-Cyclohexadienone, 2-chloro-6-(2,6 dichloro-*p* tosyl)-6 nitroxy 4 methyl, 6663³
 C₁₄H₁₄N₂ α Benzocarbazole, 5,6,6a,11a-tetrahydro-, 5674¹
 2-Fluoranthenamure tetrahydro-, 5163²
 C₁₄H₁₄N₂O Dypnone, oxime, 2132³
 C₁₄H₁₄N₂O₃ Thiochroman, 4-benzamido, 5428¹
 C₁₄H₁₄N₂O₄ Anthrone, 3 amino 2-ethoxy, *P* 5041¹
 Benzil, *p*-dimethylammo-, 100²
 Chalcone, 4' methoxy, oxime, 1819³
 Cinaguanilide, *p* methoxy, 5671⁴
p-Cinnamamide, 1819⁵
 Δ^1 -Cyclohexenecarbinolone, methylpiperonylone, 4234⁶
 Δ^1 -Isotazolin, 3 *p*-amyl-5-phenyl, 1819⁷
 α -Toluenamide, *o*-phenacyl, 3323¹
 C₁₄H₁₄N₂O₅ Thiochroman, 4 benzamido-, 1 oxido, 5428¹
 C₁₄H₁₄N₂O₆ Acetamide, *o*-hydroxy, α -toluene, 1818¹
 Acetamide, *p*-amyl, acetate, 2712²
 Benzoic acid, *p*-benzamido, Et ester, 1811³
 Butyric acid, γ -amino- α -heto-*p*-phenyl, and salts, 609⁴
 Isatin acid, 3-methyl *N* *p*-tolyl, *N* *o* salt, 294⁵
 Quinac acid, *N*, *N*-di *p*-tolyl, 294⁵
 α Toluenamide *o* hydroxy, acetate, 1818¹
 C₁₄H₁₄N₂O₇ Thiochroman, 4 benzamido-, 1 dioxido, 5428¹
 C₁₄H₁₄N₂O₈ Carbanilic acid *o*-hydroxy, Me ester, α -toluene, 1818¹
 Styrene, 4 (benzoyloxy) 3 methoxy *p* nitro-, 5899²
 C₁₄H₁₄N₂O₉ *p*-Cresol, 2-ethoxy, *m*-nitrobenzoate 2977³
 Ethanol, 2 amino 1 2 bis(3 4-methylene dioxypheyl)-, and salts, 1240⁴
 Guaiacol, 4 ethyl-5(?) nitro, benzoate, 4867⁵
 Suberyl acid, 5-amino-3 methoxy, benzoate, methyl ester, -HCl, 4084¹, *Ms* deriv, *Ms* ester, 2810²
 —, 3-methoxy-, *m*-xanobenzoate, methyl ester, -HCl, 4084¹, *Ms* deriv, *Ms* ester, 2810²
 C₁₄H₁₄N₂O₁₀ Guaiacol, 6-(*o*-isomethyl), Zn salt with *o*-vanillin, 2131¹

- $C_4H_4N_4$, 1, 2, 3-Triazole, 3 methyl 1 phenyl-4-tolyl, 1823¹
- $C_{11}H_{14}N_4O_3$ Benzo-1, 3, 6 thiadiazepin 2(1)-one, 4 (3, 4-dimethylamino), 4265¹
- $C_{11}H_{14}N_4O_4$ 4(3) Quinoxaline, 3 hexamido-1, 2 dihydro-2 methyl, 4582²
- $C_{11}H_{14}N_4O_4$ Acetophenone, 3, 4 methylenedioxy α phenyl, semicarbazone, 4576¹
- $C_{11}H_{14}N_4O_4$ Benzoin, 3, 4 methylenedioxy, semicarbazone, 4575¹
- $C_{11}H_{14}N_4S$ 1, 4, 3-Isotiazolidine, 2 amino 5 β tolyl, and -HCl, 1532²
- 1, 3, 4 Triazole, 2-(ethylmercapto)-1, 5 di phenyl, 2119²
- , 2 (methylmercapto) 5-phenyl-1-(and β) tolyl, 2119², 2120¹
- $C_{11}H_{14}N_4O_4$ Isatin, 4 a tolunosemcarbazone 3634¹
- $C_{11}H_{14}$ Fluoroethene, 6b, 7, 8, 9, 10, 10a hexahydro-, 1245¹
- $C_{11}H_{14}N_4O_3$ Benzaldehyde, 4, 4' arsenoben- [3 hydroxy-, bathussemicarbazone, P 967¹
- $C_{11}H_{14}AuBrCaO_3$ Compd., begins to decomp 130¹, from reaction of sulfonatio product of diphenylgold bromide and $CaCO_3$ 4220¹
- $C_{11}H_{14}BrNO_3$ m - Benzenesulfonotoluene 5 bromo 6 hydroxy, ethylcarbonate, 3406²
- Carbamate acid 2 bromo 2 hydroxy 5 methyl Et ester, benzenesulfonate 3408²
- $C_{11}H_{14}BrO_3$ Veratrole, 4, 4 dithiois[3 bromo- 2724¹
- $C_{11}H_{14}BrNO_3$ β Toluhydroquinone 5-(4 amino-6 bromo 2 methyl) 3, 5 dibromo-, 3410²
- $C_{11}H_{14}ClN$ Aniline β (β -chlorostyryl) N, V-di methyl 4575¹
- $C_{11}H_{14}ClNO$ Acetophenone, β -chloro- α (β -di methylamino phenyl), 4575²
- Acetophenone, α -(chlorophenyl) β -dimethyl amino-, 2713², 4575²
- 1, 3, 2 Benzoxazine, 2 methyl 4 phenyl methochloride, F/Cl deriv, 1250²
- $C_{11}H_{14}ClNO_3$ Benzoin, chlorodimethylamino-, 2992², 4575²
- $C_{11}H_{14}ClNO_3$ Acetophenone, α -(α -chlorophenyl) 3, 4-dimethoxy, oxime 2713²
- α -Toluenamide, 2 chloro 3' 4' dimethoxy 2713²
- $C_{11}H_{14}ClNO_3$ Benzoin, 2'-chloro-2, 4-dimethoxy oxime, 2992²
- $C_{11}H_{14}ClFeNO$ 1, 3, 2 Benzoxazine 2 methyl 4 phenyl, methochloride, $FeCl_3$ deriv 1250²
- $C_4H_4N_4$, Δ^4 1, 2 Diazetene 1, 3 di β tolyl, 4579²
- Δ^4 -1, 2 Diazetene, 1-o-tolyl-3 β tolyl, 4579²
- $C_{11}H_{14}N_4NO_4$ Phenol, o-(α -sommethyl), Ni salt, 2131¹
- $C_{11}H_{14}N_4NO_4$ Guaiacol, 5 (sommethyl), Ni salt, 2131¹
- $C_{11}H_{14}N_4O$ Acetanilide, β [(benzylamino) methyl], 4243²
- 5-Indanol, 6- β -tolylazo-, 694²
- $C_{11}H_{14}NO_3$ Benzothiazole, 5-methyl 1 β phenetidine-, 104²
- 2(1) Quinoxaline, 4 ethoxy 3 4 dihydro 3 phenyl 2 thio-, 3323²
- $C_{11}H_{14}NO$ Acetophenone, oxime methylcarbamate, 1506²
- Acetophenone, β methyl, oxime, carbamate, 1506²
- Hydrazine s-di- α -tolyl-, 1821¹
- Oxamide, N-ethyl-, 294¹
- Succinamide, 1504²
- α -Toluic acid ammalhydrate, 297²
- , o(and m) Acetobenzaldehyde 297²
- $C_{11}H_{14}NO_4$ Acetic acid, [β (β hydroxyphenyl)- α phenylhydrazide], 1227²
- Benzic acid 2 acetamido 5 amino benzyl ester -HCl, 4245¹
- β Cresol, 2 phenylazo- ethylcarbonate 3151²
- $C_{11}H_{14}NO_4$ Biphenyl 2, 2, 4, 4 tetramethoxy 5, 5-dimethoxy, 4252²
- $C_{11}H_{14}NO_4$ Acetanilide, 2, 3, 6 tetrabromoxy 4 nitro-, tetraacetate, 2129¹
- $C_{11}H_{14}N_4O_3$ Carbamic anhydride N, N-di methyl N N diphenyltrithio-, P 4390¹
- $C_{11}H_{14}N_4$ 4, 4' Bipyridine compd with phenylenediamine 5428²
- Compd., m 155², from compd m 208² 5428²
- $C_{11}H_{14}NO_3$ Cumaldehyde 2, 4 diastrophenyl hydrazones 3320¹
- β Isodurylaldehyde 3, 5-dinitro- phenyl hydrazones 4247¹
- Tetrobromate 1 (β hydroxyethyl), benzoate 1031¹
- $C_{11}H_{14}NO_3$ Indanol methylamino- picrate, 2129¹
- $C_{11}H_{14}NO_3$ Δ^4 -1, 3, 4-Thiadiazolone 2 amino-4-ethyl 5-phenylamino-, and -HCl 4862¹
- $C_{11}H_{14}NO_3$ Compd m 208², from $DiCl_2Br$ and NH_3 , H_2O 5423¹
- $C_{11}H_{14}NO_3$ Quinolone 5-(2, 6-diamino-3 pyridyl am) 3 ethoxy, P 4892¹
- $C_{11}H_{14}O_3$ Anisole α vinylidenec-, 4239¹
- Butyric acid diphenyl 3329¹, 4240¹
- Propophenone β methoxy a phenyl 1814¹
- α -Toluic acid, xylol, 2993², 3643¹
- β Toluquinone, 5 (2 methyl), 5410²
- $C_{11}H_{14}O_4$ Acetic acid methoxydiphenyl, Me ester 942²
- Butyric acid, β hydroxy a β diphenyl, 2987²
- Ethylene oxide, ω β -di β anisyl, 1240¹
- Guaiacol, 4-ethyl benzoate 4867¹
- $C_{11}H_{14}O_4$ Acetophenone, α β -anisyl 2 hydrazine 4 methoxy, 3327²
- Anisyl alcohol 3 hydroxy- α methyl- benzoate 4241¹
- Benzoin 2', 4-dimethoxy 4575¹
- Glyceric acid β , β -diphenyl, Me ester, 942²
- 1, 4 Naphthalenediol 2, 5-dimethyl, diacetate 683²
- $C_{11}H_{14}O_4$ Acetic acid, ω , ω (1, 5-naphthylene dithio)bis- di Me ester, 3341²
- $C_{11}H_{14}O_4$ Acetophenone, ω - β -anisyl 2, 4-dihydroxy-6-methoxy, 5575²
- Asaric acid Ph ester, 5353²
- Glycolic acid di- β -anisyl, 2143¹
- $C_{11}H_{14}O_4$ Chromone, 3-ethyl 5, 7-dihydroxy 2 methyl, diacetate 4250²
- Cosmarin, 3-ethyl-5, 7-dihydroxy 4 methyl, diacetate, 4250²
- $C_{11}H_{14}O_4S_3$ 3, 5-Xylenesulfonic acid, 2 hydroxy, benzol cyclic sulfonyl, 284¹, 691¹
- $C_{11}H_{14}AuN_4O_4$ Arsenic acid, N (β phenylcarbamylpropionyl), 2705¹
- $C_{11}H_{14}AuN_4O_4$ Succinimidosulfonic acid, 4863²

- C₁₂H₁₇BrO₄S₂ Acenaphthene-1-sulfonic acid, bromo-, di Et ester, 1515⁴
- C₁₂H₁₇ClN₂O Acetophenone, *p*-chloro- α (*p*-dimethylaminophenyl) oxime, 487²
- Acetophenone, α (chlorophenyl) *p*-dimethylamino-, oxime, 2713⁴, 487²
- m*-Tolualdehyde, α -chloro-*p*-dimethylamino-, 2713⁴
- C₁₂H₁₇ClN₂O₂ Benzoin 2'-chloro-4-dimethylamino-, oxime, 2992⁴
- C₁₂H₁₇N Benzylamine, *N*-isopropenyl *n* phenyl-, and *HCl*, 282²
- 9-Fluorylamine, *N* propyl, 311¹
- Naphthazole, dihydrotrimethylamethylene-, P 826³
- C₁₂H₁₇NO Acetophenone, α -benzylmethylamino-, 91¹
- Acetophenone, *p*-dimethylamino- α -phenyl 100⁴
- , α -(*p*-dimethylaminophenyl) 100⁴
- C₁₂H₁₇NO₂ Benzoin dimethylamino-, 512¹, 2992⁴
- C₁₂H₁₇NO₂S *p*-Toluenesulfonamide V alkyl 90¹
- C₁₂H₁₇NO₂ Acetamide, 3-(benzyloxy)-4-methoxy 420¹
- Benzyl alcohol, β (methoxymethyl), carbanilate, 4340¹
- Glutaric acid β methyl *n* naphthyl-, 3625², 3636¹
- C₁₂H₁₇NO₂ Amide, 3-5-dimethoxy, 1810²
- Asarone 5154¹
- Benzoin, 2,4-dimethoxy oxime 48¹, 61
- Pyrocatechol, 4 (β piperonylaminoethyl) salts, 3633²
- C₁₂H₁₇NO₂ Acetophenone α *p* anisyl 2,4-dihydroxy-6-methoxy oxime 567²
- C₁₂H₁₇NO₂S *p*-Acetoxamide 3-hydroxy *p*-toluenesulfonate 420¹
- C₁₂H₁₇N₂ Methanol [4 *n* iodene] 6-4] 1 2 3-trimale 1 3 *n* 4 4 *n* 5 7 *n* 8 *n* 8-octahydro-1-phenyl 180²
- C₁₂H₁₇N₂O Benzaldehyde 4 benzyl 2 methyl semicarbazone 2¹, 0⁴
- 1 2 Propanedione 1-*o*-tolyl 2-oxime, 1 phenylhydrazine 182²
- C₁₂H₁₇N₂O₂ Acetophenone α (*o*-anisyl) semicarbazone 48¹, 2
- β -Isodurylaldehyde 3 nitro phenylhydrazine, 4247¹
- C₁₂H₁₇N₂O₂ Benzoin methoxy semicarbazone 48¹, 2
- C₁₂H₁₇N₂O₂ 2-Pyrrolecarboxylic acid 3-formyl-4-methyl, Et ester phenylhydrazine, 962²
- C₁₂H₁₇N₂O₂ Phenethylamine, V (2,4-dimethylphenyl)-3,4-dimethoxy 540²
- C₁₂H₁₇N₂O₂ Prebutene, perate 1815²
- C₁₂H₁₇N₂S Acetophenone thio-4 *p*-tolylsemicarbazone, 1224¹
- Benzaldehyde, 2-ethyl-4 phenyl-3-thiosemicarbazone, 4502²
- Carbamlic acid, α (and β) methylthio- Me ester, same with BrH, and salts, 2119²
- , thiol, Et ester, same with BrH, and salts, 2119²
- 1-Pyrrolinecarboxamide, 2 (3-pyridyl) thio-, 300²
- C₁₂H₁₇N₂ Pyrazole 5-anilino-3 (2,4-diaminophenyl)-3-methyl, and *de HCl*, 1240²
- C₁₂H₁₇N₂O₂ Theobromine, 1 (β hydroxyethyl), carbanilate, 1031¹
- C₁₂H₁₇ Dibenzyl, α , α -dimethyl-, 3125²
- Benzoin, 1,4-diphenyl, 944¹, 4043²
- C₁₂H₁₇AA₂NO₂S Phenylthioarsonic acid, 2-sulfonamide-, bis(carbamylmethyl) ester, 93¹
- C₁₂H₁₇AA₂N₂O₂ Arsanilic acid, *N*, *N'* succinyl bis- and *de-Na salt*, 2700¹
- C₁₂H₁₇AA₂N₂O₂S Anthranilaldehyde, 4,4'-arsenobis[3-hydroxy-, bathopemecarbazone, P 98⁴
- C₁₂H₁₇AA₂Br Diphenethylgold bromide, 4220²
- C₁₂H₁₇BrNO₂S Benzenesulfonamide, *N* (β isome α methylphenethyl) - *N* methyl-, 688¹
- C₁₂H₁₇BrO₂Di *p*-phenethylmercurium di bromide, 1703²
- C₁₂H₁₇Br₂S Ethane, *s* bis(benzylmercapto)-, tetrabromide, 5393¹
- C₁₂H₁₇ClFIN (*p*-Chlorobenzyl)(*p*-fluorobenzyl) dimethylammonium iodide, 923²
- C₁₂H₁₇ClH₂N₂NaO₂ See *Nacetal*
- C₁₂H₁₇ClNO Anthracol, 2 (chlorophenyl) 1 (*p*-dimethylaminophenyl)-, 48¹, 2
- C₁₂H₁₇ClNO₂ Hydrobenzoin, 4-chloro-4-dimethylamino- 487²
- C₁₂H₁₇ClN₂O₂S Methylene blue, perchlorate, 1513²
- C₁₂H₁₇ClN₂S See *Methylene blue*
- C₁₂H₁₇ClO₂Di *p* phenethylmercurium dichloride, 1703²
- C₁₂H₁₇DM Dibenzylamine, *p* fluoro-*N*, *p*¹-dimethyl and *HCl*, 923²
- C₁₂H₁₇FIN (*o*-Fluorobenzyl)(*p* fluorobenzyl) dimethylammonium iodide 923²
- C₁₂H₁₇IN₂ 8 6 Et 2,4-xyldine, 5,5-diiodo-, 2711²
- C₁₂H₁₇INO Campbor 3-[(iodophenyl)imino], 4201²
- C₁₂H₁₇IN₂ 1 Methylquochlorium iodide, compd with *o*-phenylenediamine, 5426²
- C₁₂H₁₇IO₂Di *p* phenethylmercurium diiodide, 1703²
- C₁₂H₁₇N₂ *p*-Toluidine, α -(benzylamino) *N*, *N*-di methyl-, 4243²
- p*-Toluidine, *N*, *n*-dimethyl- α -benzylamino-, 4243²
- C₁₂H₁₇N₂O Acetophenone, *p*-dimethylamino- α phenyl-, oxime, 100⁴, 2714¹
- Acetophenone α -(*p*-dimethylaminophenyl) oxime, 100⁴
- α -Tolualdehyde, *p*-dimethylamino-, 2714¹
- C₁₂H₁₇N₂O₂ Carbanilide, *p*-ethoxy β methyl thio-, 104¹
- C₁₂H₁₇N₂O₂ Acetic acid (α *p* phenetyl β phenyl hydrazide), 1227¹
- Benzoin 4-dimethylamino-, oxime, 2992⁴
- Carbanilide *p*-hydroxy- α -isopropyl-, and *HCl*, 2984¹
- 3-Pyrrolealdehyde, 5-(4-acetyl 3,5-dimethyl 2 isopropylideneamethyl) 2,4 - *di* methyl-, 962²
- α Toluc acid β methoxybenzylhydrazide, 297²
- Urea α -(*p*-methoxyphenethyl) β phenyl-, 5402²
- C₁₂H₁₇N₂O₂ *p*-Cresol 2 phenylhydrazino-, ethylcarbonate 5151¹
- Fthalaldehyde, λ (*o*-aminophenyl)hexahydro-, Ac deriv., 701¹
- Sabeylaldehyde, 4-ethoxy-3-methoxy, phenylhydrazine, 702²
- C₁₂H₁₇N₂O₂S *p*-Acetotoluide, 2-*p*-tolylsulfonamide, 629¹
- C₁₂H₁₇N₂O₂ 3-Pyrrolepropionic acid, 5-carboxy 2

- (3,5-dimethyl-2-isopropylidene-methyl) 4-methyl, *HB* 111^a
- C₁₁H₁₁N₃O₄ 4-Isopyrroloquinone acid 2 (3-carboxy-5-hydroxy-4-methyl-2-pyrrolylmethylene)-3,5-dimethyl 4010^a
- C₁₁H₁₁N₂ Biacetyl, phenylloxarone 1468^a
- C₁₁H₁₁N₂O₄ 2,4-Pentanedione, (3,5-dimethyl-1-phenyl-4-pyrazolylazo), 1,23^a
- Succinic acid, bis(β-phenylhydrazide), 150^a
- C₁₁H₁₁N₂O₄ Pyridazole, 5-4-pyridazine 1 4 (2,3-dione, 2,3,6,7-tetraacetyl 6,7-dihydro-5,8-dimethyl, 1820^a
- C₁₁H₁₁N₂O₄ Benzylamine V ethyl p-methyl picrate 923^a
- Benzylamine, N,N = trimethyl, picrate, 91^a
- Isoadurine, picrate, 4533^a
- Mesidine N-methyl, picrate 4533^a
- C₁₁H₁₁N₂O₄ Benzylamine p-methoxy N,N-dimethyl, picrate, 91^a
- C₁₁H₁₁N₂O₄ Ethyldimethyl(phenylsulfonyl)ammonium picrate, 6150^a
- C₁₁H₁₁N₂O₄ Benzylamine, trimethyl, picrate 1226^a
- C₁₁H₁₁O 2,6-Xylenol 4-ethyl-α-phenyl 930^a
- C₁₁H₁₁O₂ p-Benzoic acid 2,2-dimethyl and compd with HNO₃, 457^a
- Caprophenone β 2-furyl, 3424^a
- Cyclohexanol, 1-ethyl-4-methyl, benzene, 4557^a
- Ethanol 2-ethoxy 1,2-diphenyl 290^a
- p-Tolubenzophenone, 5-(2-methyl), 3410^a
- Valerophenone, β 2-furyl-α-methyl, 6424^a
- C₁₁H₁₁O₂ Anisole, 4,4-thiobis[2-methyl, 2127^a
- Sulfone, bis(α-methylbenzyl) (1), 942^a
- C₁₁H₁₁O₂ Anisole, 4,4-dithiobis[2-methyl, 2127^a
- C₁₁H₁₁O₂ Phenol p-β-bellarene 1755^a
- C₁₁H₁₁O₂ Anisole, β 2 (methoxymethylene)benzene, 942^a
- Benzohydroxy, o-o' dimethoxy α-methyl, 4230^a
- C₁₁H₁₁O₂ Anisole, 4,4-sulfonylbis[2-methyl, 2127^a
- C₁₁H₁₁O₂ Bis-p-phenylthiuronide, 1700^a
- C₁₁H₁₁O₂ Cyclohexanecarboxylic acid 2,4-di-4-keto-3-methyl 6-phenyl Et ester 687^a
- Guaiacol, 4,4-ethylidenedio-, P 4283^a
- Umbelliferone, 3-isobutyl 4-methyl, acetate, 4869^a
- C₁₁H₁₁O₂ Anisole, 4,4-sulfonylbis[2-methyl, 2127^a
- C₁₁H₁₁O₂ Anisole, 4,4-dithiobis[2-methyl, 2127^a
- Veratrole, 4,4-dithiobis, 2724^a
- C₁₁H₁₁O₂ Glucoside, β 2-naphthyl, 1232^a
- Succinic acid, α (α-hydroxy-4-methoxy 2,5-dimethylphenyl) β-methyl, γ-lactone 1833^a
- C₁₁H₁₁O₂ Anisole, 4,4-dimethoxybis[2-methyl, 2127^a
- C₁₁H₁₁O₂ Esculin, Me ether, 3980^a
- C₁₁H₁₁O₂ + 21H₂O Esculin, 7-O-methyl, 707^a, 4201^a
- C₁₁H₁₁S Bulane, 1,4-bis(phenylmercapto), 783^a
- Disulfide, bis(α-methylbenzyl), 942^a
- C₁₁H₁₁S Sulfide, bis(β-phenylmercaptoethyl), 665^a
- C₁₁H₁₁BrN₂O₄ 4-Isopyrroloquinone acid, 2 (3-bromo-4,5-dimethyl-2-pyrrolylmethylene) 3,5-dimethyl, Et ester, *HB*, 4280^a
- C₁₁H₁₁BrN₂O₄ Neoxanthobalrubic acid biomo 1637^a
- C₁₁H₁₁BrN₂O₄ Camphoramide acid 4-bromo-2-nitro- 2711^a
- C₁₁H₁₁ClN₂O₄ Camphoramide acid 2-chloro-4-ethylaminoethyl ester, P 712^a
- C₁₁H₁₁ClN₂O₄ Camphoramide acid, 4'-chloro-2-nitro- 2711^a
- C₁₁H₁₁ClO₄ Glucose 1,2,3,6-tetraacetyl 4-tri-chloroacetyl 688^a
- C₁₁H₁₁ClN₂O₄ Benzyl(diaorobenzyl)dimethylammonium iodide 929^a
- C₁₁H₁₁HgI₃S Dibenzylethylsulfonium mercuric iodide 689^a
- C₁₁H₁₁N Anisole, V N-dimethyl p-phenyl 100^a
- Diphenethylamine, 1810^a, 2194^a salts 3633^a
- C₁₁H₁₁N Benzyl alcohol, α-(α-benzylaminoethyl), P 4539^a
- Camphor 3-phenylamino- 4251^a
- Ethanol 2 (p-dimethylaminophenyl) 1-phenyl 100^a
- C₁₁H₁₁NO₂ 1,1-Cyclopentadieneacetamide 3-methyl N-phenyl 4234^a
- Diphenylamine β β-dithioxy 5037^a
- Hydrobenzoin β-dimethylamino-, 100^a
- C₁₁H₁₁NO₂ p-Toluenesulfonamide N (γ-phenyl propyl) 2709^a
- p-Toluenesulfonamide, 2,4,6-trimethyl- 4533^a
- C₁₁H₁₁NO₂ Benzyl alcohol α-(benzylmethylaminoethyl) or, or dihydroxy P 4241^a
- Ethanol 2-amino 1,2-di-p-anisyl, and salts 1240^a
- C₁₁H₁₁NO₂ Ephedrine, N-phenylsulfonyl, 688^a
- Pseudoephedrine, N-phenylsulfonyl 688^a
- C₁₁H₁₁NO₂ Pyrocatechol, β, β-isomer[4-ethyl salts, 3633^a
- C₁₁H₁₁NO₂ Malonic acid, {2(acid 6) nitroveratryl di Et ester, 293^a
- C₁₁H₁₁N₃ 3-Pyrroloquinoline, 5 (4-ethyl 3,5-dimethyl 2-isopropylidene-methyl) 2,4-dimethyl, *HB*, 698^a
- C₁₁H₁₁N₂O₃ 3-Pyrroloquinoline, 5-acetyl 2-methyl, Et ester, phenylhydrazine, 3098^a
- C₁₁H₁₁N₂O₃ Benzenesulfonamide β-formyl N,N-dimethyl methylphenylhydrazine 929^a p-tolylhydrazine, 928^a
- C₁₁H₁₁N₂O₃ Ethyldimethylphenylammonium 2,4-dinitrophenoxide, 4242^a
- C₁₁H₁₁N₂ Leucomethylene blue, 3365^a
- C₁₁H₁₁N₂O₃ Burea, 6-amino-2-thio-1 (3,4-silyl), 3634^a
- Burea, 2-thio-6-o-tolueno-1-lyl, 3634^a
- C₁₁H₁₁N₂O₃ Carbazone phenylcarbamyl, 5180^a
- C₁₁H₁₁N₂O₃ 1-Butanol, 4-methylamino-1 (3-pyridyl), picrate, 300^a
- C₁₁H₁₁ Fluoranthene, 1 2 3,6b,7,8,9,10,10a-10b-decahydro-, 1245^a
- C₁₁H₁₁N₂O₂ Ammonium succinimideacetate 4563^a
- C₁₁H₁₁N₂ [4,4'-Bis-m-phenylenediamine], 5,5-diamino-2,2,6,6-tetramethyl, 2711^a
- C₁₁H₁₁N₂O₂ Phenol, cyclobenzyl, bis(acetoxy mercuric) deriv, 4251^a
- C₁₁H₁₁N Benzylethylmethylphenylammonium iodide, 1602^a

- Dibenzylidimethylammonium iodide, 282²
 C₁₆H₂₅INO Camphor, 3 isodamboo, 4252²
 C₁₆H₂₅N₁ α-*Octatrienealdehyde* amine, 653²
 C₁₆H₂₅N₁O Ketone, aminoisomethyl 4-ethyl-3-5-dimethyl 2 pyrrol, 3009¹
 3 Pyrrolealdehyde 5-(4-ethyl 2 5-dimethyl-2 isopropylideneethyl) 2,4 di methyl HBr, 962²
 C₁₆H₂₅N₁O Benzylamine 3-dimethylammoniumbenzoate, 4243²
 Cyclohexanecarboxylic acid 2 (2 benzimidazolyl) 701²
 4 Isopyrrolecarboxylic acid 2 (4 3-dimethyl 2 pyrrolimethylene) 3 5 di methyl, Et ester HBr, 4280²
 C₁₆H₂₅N₁O₂ Amine N (sulfonylethylene)base, 662²
 C₁₆H₂₅N₁O₂ Benzylglycyl(methylphenylammonium) nitrate 1502¹
 Croconic acid 2 β-diethylammonioethoxy HCl, 524¹
 Neosanthoburic acid 1836²
 Ithamide N (β-hydroxy-γ 1 isopropyl propyl), P 1336²
 C₁₆H₂₅N₁O₂ Apocoumaric carboxy 700² 706²
 C₁₆H₂₅N₁O₂ Camphor, 2 4-dimethylphenylhydrazones, 3320¹
 Fenchone 2,4 dimethylphenylhydrazones 3320¹
 Pulegone 2 4 dimethylphenylhydrazones 3320¹
 C₁₆H₂₅N₁O₂ Etheno[4 1]pyridine-8-carboxylic acid, 1 2 3a 4a 6 ~ "a 8a-octahydro-3 5-dimethyl-2,5,6 "a trimino- 3631¹
 C₁₆H₂₅N₁O₂ Glucose 3 pyridylisozone 3345¹
 C₁₆H₂₅O Cyclopentanone benzylisopropyl methyl 603¹
 C₁₆H₂₅O 1 3 Indanone 2 hexyl-6-hydroxy-methyl 2718¹
 C₁₆H₂₅O Malonic acid (β-methylstyryl) di Et ester 1603²
 C₁₆H₂₅O Malonic acid, (α-ethoxybenzyl), di Et ester 2976²
 C₁₆H₂₅O Phthalic acid Bu β-hydroxyethyl ester acetate P 610¹
 C₁₆H₂₅O Acetoacetic acid α-(2 4 5-trimethoxybenzoyl) Et ester, 5154¹
 C₁₆H₂₅O Fumaric acid β-4 glucoside 513¹
 C₁₆H₂₅O Scannone diethylphenyl 4563¹
 C₁₆H₂₅BrN₁O Lysine N⁴ benzyl N⁶ (α-bromopropionyl) 2974¹
 C₁₆H₂₅BrN₁O 3-*Diisopropylisomethylammonium coumarin-3-carboxylate* 2814¹
 C₁₆H₂₅ClN₁O Lupinine chloro, perate 3347¹
 C₁₆H₂₅IN₁ Benzylphenylpropylammonium iodide 2982¹
 C₁₆H₂₅MoN₁3 + H₂O 348¹
 C₁₆H₂₅N Cyclohexylamine N (β-methylcoumaril) 1810²
 C₁₆H₂₅NO Camphor 3-amine 4251²
 Δ¹ Cyclohexanecarboxy-*p*-toluene methyl, 280¹
 Δ¹ Cyclohexanecarboxy-*p*-toluene, methyl, 280¹
 C₁₆H₂₅NO₂ (See also *Homopropine*)
 Cyclooctanecarboxylic acid, 3-methyl 1 (phenylcarbamylmethyl), 4234¹
 C₁₆H₂₅NO₂ Benzyltrimethylammonium benzoate sulfonate, 5150¹
 α-Camphorulfonamide, 3322²
 C₁₆H₂₅NO₂ Benzene sulfonic acid, *p*-methoxy, Me ester, compd with PhNMe₂, 3322²
 C₁₆H₂₅NO 5-*D*-Oxanecarboxylic acid, 5-methoxy methyl 2,2-dimethyl, *p*-nitrobenzoate, 1801¹
 C₁₆H₂₅NO₂ Glucononitrile, pentaacetate, 1220¹
 Mannonitrile, pentaacetate, 1220¹
 C₁₆H₂₅N₁O₂ 1 4 3-Isobutadiene, 2 isobutyl amino-5-*p*-tolyl, Ac deriv, 1532¹
 C₁₆H₂₅N₁O₂ Ether, 3 *p*-menthyl peryl, 5672¹
 C₁₆H₂₅ClN₁O Glucosamine, N (α-chloroacetyl) tetraacetyl, 3968¹
 C₁₆H₂₅CuO₂ Acetoacetic acid, α-(β-hydroxyethylidene), Cu deriv, Et ester, 2976²
 C₁₆H₂₅N₁O Ketone, 3,5-dimethyl 2 pyrrol 4-ethyl 3 5 dimethyl 2 pyrrolmethyl, 3009¹
 Ketone, 3 5-dimethyl-2 pyrrolmethyl 4-ethyl 3 5-dimethyl 2 pyrrol 3009¹
 2 Pyrrolol, 4-ethyl 5-(4-ethyl-3 5-dimethyl 2 isopropylideneethyl) 3 methyl, 2433¹
 C₁₆H₂₅N₁O₂ Alantolactone, compd with CH₂Ne 4006¹
 Cyclooctanone 2 methyl-, oxime, carbamate, 3972¹
 C₁₆H₂₅N₁O₂ Apocoumaric carboxy, and *pyr* chlorate, 706² and salts, 4002²
 Neoburic acid, 1836²
 C₁₆H₂₅N₁O₂ Aldehyde from carboxyapocoumarin, and salts, 706², 707¹
 Ether 2,4-dimethylphenyl 3-*p*-menthyl, 5672¹
 C₁₆H₂₅N₁O₂ Apocoumaric acid, carboxy, and salts 706², 707¹
 C₁₆H₂₅N₁O₂ Butenedisulfonic acid, 2,3-dimethyl-, pyridine salt, 3218¹
 C₁₆H₂₅N₁O₂ Glucosamine N benzoylaminyl, 1803¹
 C₁₆H₂₅O Glyoxylic acid, phenyl, β-octyl ester, 3397¹
 C₁₆H₂₅O₂ Adipic acid β-phenyl, di Et ester, 5161¹
 Glutamic acid, α-(α-4-dimethylbenzyl) β-β-dimethyl 4240¹
 4-Heptanol 2 methyl acid phthalate, 484¹
 Malonic acid 2 4-dimethylbenzyl, di-Et ester, 5154¹
 -, (β-methylphenethyl), di Et ester 5154¹
 Phthalic acid, di Bu ester 3182² 3620¹
 diisobutyl ester, P 1840¹
 C₁₆H₂₅O₂ Pelargonic acid β (2,4-dihydroxybenzoyl) P 2737¹
 C₁₆H₂₅O Fructose pentaacetate 4232¹
 Galactose, pentaacetate 3630¹
 Mannose, pentaacetate 1805¹
 C₁₆H₂₅O₂ Dipentaerythritol benzoformate, 1486¹
 C₁₆H₂₅NO Cyclopropanecarboxamide, 2 hexyl, 518¹
 2 Naphthol, 1,2,3 4 tetrahydro-2 (1 piperidylmethyl), and salts 364¹
 Piperidine, 1 (1,2,3,4 tetrahydro-1 methoxy-2 naphthyl) and HCl 2139¹
 C₁₆H₂₅NO₂ Cyclohexanol 4-isopropyl, carbamate, 4532¹
 Pycolonic acid, methyl ester, 4549¹
 1 Piperidylacetic acid 2 benzyl, Et ester, 5420¹
 1 Piperidylpropional, 2 (and 3) methyl, benzene, HCl, P 1037¹
 1 Pyrrolidinemethanol, α-ethyl-α methyl-, benzene, 1826¹
 C₁₆H₂₅NO₂ Nicotinic acid, 5-acetyl 1,6-dihydro-4-isobutyl-6-keto-1,2-dimethyl-, Et ester 293¹

- C₁₁H₁₉NO₃ Camphorsulfonic acid, PhNH₂ salt 3322³
- C₁₁H₁₉NO₃ 3-Pyrroleacrylic acid 5-carboxy-*o*-ethoxy 2,4-dimethyl, di Et ester, 1520³
- C₁₁H₁₃NO₃ Benzoatesulfonic acid, *o*m and *p*) nitro-, menthyl ester, 4540³, 4550³
- C₁₁H₁₉NO₄ Glucosamine, β pentaacetyl, 3968³
- C₁₁H₁₉NO₄ Glucose, oxime pentaacetate 1220³
- C₁₁H₁₉NO₄ Cinnamaldehyde, α benzyl, semicarbazone, 4247³
- C₁₁H₁₉N₂O₂ Ethion[4,8]pyridazine, 1,2,3a,4a,6,7,7a,8a octahydro 2,5,8 trimethyl 3,5-dinitro-, 1831¹
- Glycine, *N* [*N* (*p*-aminobenzoyl)leucyl], Me ester, 491¹
- Lysine, *N*³ alanyl *N*³ benzoyl, 2974¹
- C₁₁H₁₉N₂O₂ Oxime of aldehyde from carboxy apocandine, di HBr, 707¹
- C₁₁H₁₉N₂O₂ Dipropylamine, picrolonate 70¹
- Hexylamine picrolonate 70¹
- Triethylamine, picrolonate, 70¹
- C₁₁H₁₉ Compd, bp 130-2°, from benzene treated with H₂SO₄, 3463³
- C₁₁H₁₉BrN₂O Compd of lupanine with BrCN 3008³
- C₁₁H₁₉ClNO₂ 1 Nonanol, 9-chloro-, carbanilate 5395¹
- C₁₁H₁₉ClNO₂ Glycine (chloroacetyl)glycylglycylglycylglycylglycylglycyl, 75¹
- C₁₁H₁₉NO₂ 11 *b*-Benzotoluquinone 1,2,3,4,6,7 hexahydro 9,10 dimethoxy methanide, 1531¹
- O₁₁H₁₉N₂ Baenzimidazole, 2 acetyl 1800¹
- C₁₁H₁₉N₂O Apocandine methyl, di-HClO, 4003¹
- C₁₁H₁₉N₂O₂ Levulic acid isoamyl ester phenylhydrazide 490¹
- C₁₁H₁₉N₂O₂ Alactobac acid compd with ClH₃N₃, 4006¹
- Apocandine carboxyhydrazide and *per* chlorate, 4275^{1,2}
- Carbamile acid, *p*-acetamido-, heptyl ester, 5404¹
- Isolactobac acid compd with ClH₃N₃, 4006¹
- C₁₁H₁₉N₂O₂ Δ^1 -Butenylamine, *N*, *N*, β -triethyl perate, 4525¹
- C₁₁H₁₉O Ether, 3 β menthyl phenyl 5472¹
- Pelarganophenone, β -methyl, 5070¹
- C₁₁H₁₉O₂ Compd, m 137-8°, from di Me clovenate and MeMgI, 3658³
- Eusanthrac acid, 6-ethyl-*o*-tolyl ester, 929¹
- Eusanthrophene, 3 ethyl 4 hydroxy 5 methyl, 929¹
- 1 Heptanol 2 benzyl, acetate, 4247³
- Itinac acid, 2424¹
- β Toluquinone, 3-nonyl, 5670³
- C₁₁H₁₉O₂ Acetic acid, (*o*-octylphenoxy) 1229¹
- C₁₁H₁₉O₂ β Toluquinone, 3,6-dihydroxy-5-nonyl, 5670¹
- C₁₁H₁₉O₂ Succinic acid, (1-carboxy 2 ketocyclopentyl), tri Et ester, 4531¹
- C₁₁H₁₉BrN₂O Spartine, bromo-*o*-methoxy, and HBr, 3007¹
- C₁₁H₁₉ClS Sulfide, α -chlorodecyl phenyl, 5395¹
- C₁₁H₁₉N Cyclohexylamine, *N* (γ -phenylisobutyl) and HCl, 1810¹
- Ethion[4,8]pyridazine, 1,2,3a,4a,6,7,7a,8a - octahydro - 3,5,8 - trimethyl-, and salts, 1830¹, 1831¹
- C₁₁H₁₉NO₂ Dimcrotine acid, 1,2(or 1,4)-di hydro - 1,2,2,4,6(or 1,2,4,4,6) - penta-methyl, di Et ester, 295¹
- Dimcrotine acid 4-ethyl 1,2-dihydro-1,2,6 trimethyl, di Et ester 295¹
- Phthalic acid mono Bu ester BuNH₂ salt P 3665³
- 2 4-Pyrroledicarboxylic acid 5-dipropyl di Et ester, 3010³
- C₁₁H₁₉NO₂ Idosyl-6-amino-, acetate β toluene sulfonate 2120¹
- C₁₁H₁₉N₂O₂ Pelarganophenone α -hydroxy semi carbazole 1229¹
- C₁₁H₁₉N₂O₂ Leucine cyclo-propylpropyl 1270³
- C₁₁H₁₉N₂O₂ 2,2 Iodandiacetic acid hexahydro-3 keto-, di Me ester, semicarbazone 3335¹
- C₁₁H₁₉N₂O₂ 1 4 Piperazinediethanol *n* a di methyl, perate, 5170¹
- C₁₁H₁₉ Decane 1 phenyl- 3469³
- Fluoranthene hexadecahydro- 1245¹
- Nonane 1 β tolyl, 5670¹
- C₁₁H₁₉N₂O₂ See *Allyl*
- C₁₁H₁₉N₂O₂ Glucosine acid 2,3,5,6-tetramethyl phenylhydrazide 5660¹
- C₁₁H₁₉N₂O₂ Dusoacetylammopur perate 2620¹
- C₁₁H₁₉N₂O₂ 3-Hexanol 6-dimethylamino-3 ethyl, perate, 4525¹
- C₁₁H₁₉N₂O₂ Glycine (glycylglycylglycylglycylglycylglycyl) 75¹
- C₁₁H₁₉O α -Cresol, 6-ethyl-4 heptyl 929¹
- C₁₁H₁₉OS₂ Decanol 10-phenylmercapto- 3395¹
- C₁₁H₁₉O₂ Compd m 123-4°, from sclatol, 3638³
- Cyclohexanol, 1 1 ethionecbas[4 methyl 4557¹
- C₁₁H₁₉O₂ Amaldehyde di Bu acetal 922¹
- Corchogenan, 3657¹
- 2 Iodandiacetic acid 2-acetylhexahydro-, Et ester, 3335¹
- Isolactobac acid, dihydro Me ester 4006¹
- C₁₁H₁₉O₂ 2 Iodandiacetic acid 2-carboxyhexahydro- di Et ester 3333¹ 3334¹
- C₁₁H₁₉O₂ Δ^1 1 5-Footenetracarboxylic acid, 2,4 dimethyl tri Et ester, 5663¹
- 1,1,3 Propanetracarboxylic acid 2 methyl 2 propenyl tri Et ester 5663¹
- C₁₁H₁₉O₂ Di(dihydroxyhexanone)anhydride, di acetyl, 453¹
- C₁₁H₁₉O₂ 1,2,3,3 Butanetetracarboxylic acid, tetra Et ester, 1803¹
- C₁₁H₁₉BrP Phosphine dibutyl(β -ethylphenyl) dibromide, 283¹
- C₁₁H₁₉N Amine, *N* *N*-dusoamyl 1797¹
- Toluamide, nonyl sulfate, 5670¹
- C₁₁H₁₉NO₃ Methylsulfonamide *N* heptyl, 2704¹
- C₁₁H₁₉NO₂ Cyclohexylamine *N* (γ 2 furyl β methylpropenyl), tetrahydro deriv, acid oxalate, 1810¹
- C₁₁H₁₉P Phosphine, dibutyl(β ethylphenyl), 263¹
- Phosphine, dibutyl 2,5-xylol-, and compd with H₂C₆, 3702¹
- \rightarrow diisobutyl 2,5-xylol-, and compd with H₂C₆, 3702¹
- C₁₁H₁₉ Cyclohexane, 1,2,3,4,5,6-hexamethyl-4 (α methylpropenyl) (*p*), 3310¹
- 2 4 Hexadecane, 3 4-dimethyl, dimer, 3309¹
- C₁₁H₁₉OP₂ β Amyl diisobutylmethylphosphonium iodide, 283¹
- C₁₁H₁₉N₂O Lupanine, *N*-methyl, and chloro oxalate, 3005¹
- C₁₁H₁₉N₂O₂ Glutaramic acid, *N*(11) lupanyl, Me ester, 3007¹

- C₁₄H₂₁N₂O₇ Glycine, leucylglycylglycylglycylglycyl 2040⁹
- C₁₄H₁₉O₇ Alantolic acid, tetrahydro-, Me ester, 4000⁹
- 1 2 Ethanediol 1 2-dicyclobexyl, acetate, 5416⁹
- Orthoacetac acid phenyl, Me di Bu ester 2133⁹ Me diisobutyl ester 2133⁹
- C₁₄H₂₁N₂O₇ Cyclohexylamine, γ (3 isopropyl Δ^2 -isobutyrylidene), 1809⁹
- C₁₄H₁₉NO₇ Malonic acid pivalargonylamino-, di Et ester 5398⁹
- C₁₄H₁₉O₇P β -Asnyldibutylmethylphosphonium hydrazide, 283⁹
- C₁₄H₁₉N₂O₇ Pyrimidine 2 2 4,6-tetraethoxy α , β -diethyl 2 5-dihydro-, 4223⁹
- C₁₄H₁₉N₂O₇ Chitosan methyl 1224⁹
- C₁₄H₁₉O₇ Valeric acid 4-methoxy 3 β -menthyl ester 5672⁹
- C₁₄H₁₉O₇ Caprylic acid α , ω -dithio-, 962⁹
- C₁₄H₁₉O₇ Peroxide bis(β -isomoxypyroneyl), 4549⁹
- C₁₄H₁₉BrO₇ Lauroic acid, α bromo- Ba and Ca-butyrate esters 5663⁹
- C₁₄H₁₉N₂O₇ Cyclohexylamine 4-(β -cyclohexyl)thyl γ γ -di methyl 5416⁹
- C₁₄H₁₉NO₇ Caproamide γ 3 β -menthyl, 1233⁹
- C₁₄H₁₉N₂O₇ Leucine γ (γ leucylglycyl), ethyl ester HCl 2⁹ 42⁹
- C₁₄H₁₉N₂O₇ Pyrrolidine γ (11) lupulyl, di methiodide 3007⁹
- C₁₄H₁₉O₇ (See also Palmitic acid)
- Myristic acid Et ester 1797⁹
- C₁₄H₁₉O₇ Palmitic acid, α mercapto- 982⁹
- C₁₄H₁₉Cl₂ Heptadecane 1-chloro- 5392⁹
- C₁₄H₁₉Cl₂ Heptadecane 1-iodo- 5327⁹ 5661⁹
- C₁₄H₁₉N₂O₇ Isoethylamine Δ -cyclohexyl β isopropyl ester HCl 1509⁹
- C₁₄H₁₉N₂O₇ Lauric acid α -amino-, isobutyl ester 4500⁹
- C₁₄H₁₉N₂O₇ Compd, b.p. 100-2°, from EtMgBr and Cl₂C(CO₂Et)₂ 3110⁹
- 1 4 Piperazinedimethanol α , ω -dimethyl- α α -dipropyl, c.f.d. HCl 517⁹
- C₁₄H₁₉N₂O₇ 1 4 α -Piperazinedimethanol, α , ω -bis(propoxymethyl), and di-HCl, 517⁹ c
- C₁₄H₁₉O₇ (See also Cetyl alcohol)
- 6-Hendecanol, 6-amyl-, 2113⁹
- C₁₄H₁₉O₇ Sorbitol pentaethyl- P 964⁹
- C₁₄H₁₉AsI₂ Triamylmethylarsonium iodide, 1485⁹
- C₁₄H₁₉Cl₂N₂O₇ 1 β Hydroxyethyl 1-methylpiperidinium chloroplatinate 1814⁹
- C₁₄H₁₉Cl₂N₂O₇ Choline, propionyl, chloroplatinate, 2313⁹
- C₁₄H₁₉N₂S₂ Diisobutylamine, β , β' -dithio-, 4854⁹
- C₁₄H₁₉N₂N₂O₇ 1177⁹
- C₁₄H₁₉Cl₂N₂O₇ β Methoxytrimethylmethylenemethylammonium chloroplatinate, 5399⁹
- C₁₄H₁₉N₂O₇ 7 - *meso* - Benzanthreneone, tetraauto-, 5170⁹
- C₁₄H₁₉BrO₇ Benzaldehyde [3]thiophanthrene - 6,11-dione, 5-methyl-, tri Et ester, 5166⁹
- C₁₄H₁₉ClO₇ Benzaldehyde [3]thiophanthrene-carboxyl chloride, 6,11-dihydro-6,11-diketo-, 5166⁹
- C₁₄H₁₉N₂O₇ 7 - *meso* - Benzanthreneone, trimetro-, 5170⁹
- C₁₄H₁₉BrO₇ Benzaldehyde [3]thiophanthrene - 6,11-dione, 2-(chloromethyl)-, 5166⁹
- C₁₄H₁₉O₇ Benzaldehyde [3]thiophanthrene - 9 - aldehyde, 6,11-dihydro-6,11-diketo-, 5167⁹
- C₁₄H₁₉O₇ Benzaldehyde [3]thiophanthrene-carboxylic acid, 6,11-dihydro-6,11-diketo-, 5166⁹
- 2 Thiophanthrene-carboxylic acid 1-carboxybenzoyl, anhydride, 5167⁹
- C₁₄H₁₉Cl₂O₇ Benzaldehyde chloride, 2-(1-naphthyl) 3 5-dimetro-, 4238⁹
- C₁₄H₁₉ClO₇ Benzaldehyde [3]thiophanthrene - 6,11-dione, chloromethyl-, 5166⁹ 5166⁹
- C₁₄H₁₉ClO₇ Benzaldehyde [3]thiophanthrene - 6,11-dione, 2-chloro-7,10-dihydroxy 4-methyl-, 5166⁹
- C₁₄H₁₉Cl₂N₂O₇ Anthraquinone, 1-chloro-2-hydroxy-3 (α -trichloroacetamidomethyl), 1242⁹
- C₁₄H₁₉N₂ 3-Fluoranthracene-styrene, 5163⁹
- C₁₄H₁₉N₂O₇ 7 *meso* Benzanthreneone, nitro-, 5170⁹
- C₁₄H₁₉N₂O₇ Benzaldehyde [3]thiophanthrene-carboxamide, 6,11-dihydro-6,11-diketo-, 5166⁹
- C₁₄H₁₉N₂O₇ Acetic acid, (1-cyano-2-anthraquinonylmercapto)-, 2123⁹
- C₁₄H₁₉Cl₂N₂O₇ Anthraquinone, 2-hydroxy 1-(trichloroacetamidomethyl), P 503⁹
- C₁₄H₁₉N₂O₇ Benzene acid, 2 (1-naphthyl)-3,6-dimetro-, 4238⁹
- Naphthol, 3 5-dinitrobenzoate 2982⁹
- 5(4) Oxazalone, 4 (6-nitropiperonylidene) 2 phenyl, 3342⁹
- C₁₄H₁₉O₇ 7 *meso* Benzanthreneone, 294⁹
- 2,3-Benzofluorene 11-one, 4000⁹
- 11 Chrysosuloneone, 4000⁹
- C₁₄H₁₉O₇ 3 Fluoranthracene-carboxylic acid, 5163⁹
- C₁₄H₁₉O₇ Benzaldehyde [3]thiophanthrene - 6,11-dione, methyl-, 5166⁹ 5166⁹
- C₁₄H₁₉O₇ 7 - *meso* - Benzanthreneone, 2,3-dihydroxy, P 712⁹
- β - Toluididehyde, α (1,3-diketo 2-analytidene), 1517⁹
- C₁₄H₁₉O₇ 2 Thiophanthrene-carboxylic acid, 1-carboxybenzoyl-, 5167⁹
- C₁₄H₁₉O₇ Benzaldehyde [3]thiophanthrenesulfone acid, 6,11-dihydro 6,11-diketo-3-methyl-, Na salt, 5163⁹
- C₁₄H₁₉O₇ 1,1 (2 2) α -Spiro[isobenzofuran] 3-carboxylic acid, 2,2'-diketo-, 2,2'-diester, 5168⁹
- C₁₄H₁₉O₇ 1 - Anthraquinone-carboxylic acid, 2 (carboxymethylmercapto)-, 2723⁹
- C₁₄H₁₉BrO₇ 9 Phenanthrene-carboxylic acid 6 bromo-4 methoxy-5,6-methylene-dioxy, 3553⁹
- C₁₄H₁₉BrN₂O₇ Canthopha, 6,8-dibromo-4'-methoxy, 960⁹
- C₁₄H₁₉Cl₂N₂O₇ Ketone, chloromethyl-5-hydroxy-5-quinolyl, peroxide, 106⁹
- C₁₄H₁₉ClO₇ Benzene acid, α (5-chloro-3-methyl-1-thiophanthrenylcarboxyl), 5163⁹
- 1 Thiophanthrene-carboxylic acid, 2 benzoyl-chloromethyl-, 5166⁹ 5166⁹
- C₁₄H₁₉N₂ Benzanthreneone, 294⁹
- Benzaldehyde [3]thiophanthrene, 3344⁹
- C₁₄H₁₉N₂O₇ 7 *meso* - Benzanthreneone, amino-, 5170⁹
- 2-Fluoranthrene-carboxamide, 5163⁹
- C₁₄H₁₉N₂O₇ Indeno[3,2 β]quinoline, methylene dioxy, 1233⁹ c
- C₁₄H₁₉N₂O₇ Benzanthreneone, N (5 8-dihydro 5,8-diketo-2-naphthyl), P 420⁹, P 1294⁹
- Benzoic acid-carboxylic acid, hydroxy-, P 660⁹
- C₁₄H₁₉N₂O₇ 2 - Anthraldehyde, 1-acetamido-9,10-dihydro-9,10-diketo-, 947⁹

- Cinchophen, 4'-carboxy, P 4558^a
 1,2 - Pyrone 6 (*p* nitrophenyl) 4 phenyl, 2145^a
 C₁₇H₁₃NO₄ (See also *Hetero*)
 1 - Indanone, 4,5 - methylenedioxy - 2 *o* nitrobenzyl, 1253^a
 —, 2 (6 nitropiperonyldiene), 1253^a
 C₁₇H₁₃NO₄ Acetic acid, (1 - carbamyl - 2 anthraquinonylmercapto), 2723^a
 C₁₇H₁₃NO₄ 2 Naphthalenesulfonic acid, 6 benzamide-1,4 dihydro 1,4 diketone-, No sol, P 139^a
 C₁₇H₁₃NO₄ 3 Quinolacetonitrile, 2 amino 8 7 methylenedioxy-, 1253^a
 C₁₇H₁₃NO₄ Benzamide 2 (1 naphthyl) 3 5 dinitro-, 4258^a
 Cinnamanilide *a* cyano 4 5 methylenedioxy 2 nitro-, 1253^a
 C₁₇H₁₃NO₄ Ether methyl 1 perylmerecapto-2 naphthyl, 5330^a
 C₁₇H₁₃ 7 *meta*-Benzanthrene, 202^a
 1,4-Pentadene 1,5-diphenyl- 2121^a
 C₁₇H₁₃AN Aramine, cyano-1 naphthylphenyl 1515^a
 C₁₇H₁₃Br₂NO₄ 4 - Pyrazolol 1 - (2 4 dibromophenyl) - 5 methyl, benzoate 3342^a
 C₁₇H₁₃ClNO₄ Cinchonoyl chloride, 6-methoxy 2 phenyl 4884^a
 C₁₇H₁₃ClN₂ 2 Quinolacetonitrile 4 amino 3-chloro- 2430^a
 C₁₇H₁₃ClN₂O₂ Pyrazolol, 1 (2 4 dichlorophenyl) 5 methyl benzoate, 3342^a
 C₁₇H₁₃FNO₄ Benzamide N (4 Guern 1 naphthyl), 4545^a
 C₁₇H₁₃INO₄ 2 Naphthalide 3-iodo-, 2140^a
 C₁₇H₁₃N₂ 1 *meta* Benzanthrene 1 3(2) diamine P 4717^a
 2 6 Pyridazole, 1 phenyl 301^a
 C₁₇H₁₃N₂O₂ Indeno[2 3 *β*]quinazolinone - 11 acetic acid 5162^a
 Isocyanic acid 5 methoxy - 2 - phenyl 4 quinoxalyl ester, 4554^a
 Isoindogotin 1 methyl, 294^a
 C₁₇H₁₃N₂O₂ Cinnamamide, *a* cyano 3,4 methylenedioxy 1253^a
 2 Naphthoic acid 3 hydroxy-4 phenylazo-, 4877^a
 2 Pyridol, 5 (*p* nitrophenyl) 4 phenyl, 2145^a
 C₁₇H₁₃N₂O₂ Benzamide N (4 hydroxy 1 naphthyl) *p* nitro-, 2094^a
 C₁₇H₁₃N₂O₂ Malonanilic acid *a* (nitropiperonyl idene), 5071^a
 C₁₇H₁₃N₂O₂ Ether, 3 (2 4 dinitrophenyl sulfonol) 2 naphthylmethyl, 2138^a
 C₁₇H₁₃N₂O₂ Cinchonoyl amide, 6 methoxy 2 phenyl, 4884^a
 C₁₇H₁₃N₂O₂ Phenol, 2,6 dinitro 4 (*p* nitrophenyl), compd with pyridine, 2722^a
 C₁₇H₁₃N₂O₂ Ketone, 8 hydroxy 5 quinoxalyl methyl picate, 100^a
 C₁₇H₁₃O₂ Ketone, 2 naphthylphenyl 944^a
 C₁₇H₁₃O₂ Xanthene 9 (2 thienyl), 2143^a
 C₁₇H₁₃O₂ Ketone hydroxynaphthyl phenyl, P 3358^a, P 5576^a
 2-Naphthol, benzoate, P 1805^a, 1632^a
 1 4-Pyrone, 2,6 diphenyl, 2352^a
 C₁₇H₁₃O₂ Betol, 4450^a
 1,2 4 Cyclopentatriene, 3,5 diphenyl-, 2999^a
 C₁₇H₁₃O₂ Benzoic acid, *o*-(1-thionaphthyl carbonyl)-, Me ester, 5162^a
 Thionaphthene-carboxylic acid, *p*-toluyl, 5162^a, 5164^a
 C₁₇H₁₃O₂ *β* Butenone acid *γ*-hydroxy-*α*-(3 4 methylenedioxyphenyl) *γ* phenyl, lactone 3325^a
 4 Chromanone, 3 piperonylidene, 1534^a
 Crotonic acid *γ* hydroxy *α* (3 4 methylenedioxyphenyl) *γ* phenyl, lactone 3324^a
 A³ 1 1 Cyclopropenedicarboxylic acid 2,3-diphenyl 1806^a
 C₁₇H₁₃O₂ 1 Thionaphthene-carboxylic acid 2 amino 5162^a
 C₁₇H₁₃O₂ Anthraquinone 2 hydroxy - 7 methoxy acetate 1519^a
 4 Chromanone 7 hydroxy 3 piperonylidene 1534^a
 Hirsman 6 hydroxy benzoate 3950^a
 6 Phenanthrenecarboxylic acid, 4 methoxy methylenedioxy, 3633^a
 C₁₇H₁₃O₂ 9 9 10 (10) Anthracene-tricarboxylic acid 1518^a
 C₁₇H₁₃O₂ Isophthalic acid, 5 (*o* carboxy benzoyl) 4 methoxy, P 2154^a
 C₁₇H₁₃Br₂N₂O₄ 4 Pyrazolol 1 (*p* bromophenyl) 5 methyl benzoate 3342^a
 C₁₇H₁₃Br₂N₂O₄ Anisole 2 4 6-trinitro-, compd with 4 1 BrC₆H₄NH₂, 551^a
 C₁₇H₁₃Br₂N₂O₄ Phthalaz 1 one 2 4 di-bromo 4 amino 3 phenyl 4 methyl, Acetate 4273^a
 C₁₇H₁₃Br₂N₂O₄ Phthalazine 4 acetic acid, 1 hydroxy 3 (2,6 dibromo 4 nitrophenyl) 1 3 dihydro, Me ester, 4273^a
 C₁₇H₁₃ClN₂O₄ 4 Pyrazolol 1 (*p* chlorophenyl) 5-methyl benzoate 3342^a
 C₁₇H₁₃ClN₂O₄ Glyoxime, chloromethyl, di Br deriv 801^a
 C₁₇H₁₃ClN₂O₄ Isoquinoline 1 (chloromethyl) 1 4 dihydro 5,7 methylenedioxy picate 1531^a
 C₁₇H₁₃ClN₂O₄ Phthalaz 1 one 2,6' dichloro 4' amino 3 - phenyl 4 - methyl Ac deriv, 4273^a
 C₁₇H₁₃ClN₂O₄ Phthalazine 4 - acetic acid 1 hydroxy 3 (2,6' - dichloro 4 nitrophenyl) 1 3-dihydro, Me ester, 4273^a
 C₁₇H₁₃ClN₂O₄ 1 3 Benzodioxan 6 carboxamide, 2 4 bis(dichloromethyl), 3428^a
 C₁₇H₁₃IOS Ether, 1 (*e* iodophenyl) - 2 - naphthylmethyl, 3339^a
 C₁₇H₁₃N₂ *γ* Benzocarbazine 6-methyl 1523^a
 C₁₇H₁₃N₂O 2 - Naphthol, 3 (phenylamino-methyl), 2146^a
 C₁₇H₁₃NO₂ Naphthoic acid, amino, 294^a
 C₁₇H₁₃NO₂ 2 Thiazolcarbazol, 4 phenyl, benzoate, 2722^a
 C₁₇H₁₃NO₂ (See also Cinchophen methoxy-) 1,2 Benzopyran 3 carboxylamide, 2 keto-, 5071^a
 Cinchophen, 6-hydroxy, Me ester, 4883^a
 Cretolomic acid, *γ* hydroxy *α* - (3,4 - methylenedioxyphenyl) - *γ* - phenyl *γ* - lactone, 3325^a
 Homopiperonylonitrile, *a* phenacyl, 3324^a
 5(4)-Oxazolinone, 4 amino 2 phenyl, 1508^a
 —, 4 methoxybenzyl 2 phenyl, 1508^a
 C₁₇H₁₃NO₂ 3 2(1) - Naphthalene, 1 - nitro 1 *p* tolylmercapto-, 4257^a
 C₁₇H₁₃NO₂ 2 Anthraquinonecarboxylic acid, 1 amino, Et ester, P 2439^a
 Benzoic acid, *p* phthalimido-, Et ester, 1811^a

- Cinchophen 2,4-dihydroxy Me ester 700¹
- Δ Oxazone 4,5-epoxy 4-methyl 2 (3,4-methylenedioxyphenyl) 5-phenyl 293¹
- † Quinodimethoxylic acid 1,4-dihydro 4-keto-6-methoxy 2-phenyl 1830¹
- C H₁₁NO₃S Toluenesulfonamide V (5,8-dihydro 4,8-diketo 2-naphthyl) P 1393¹
- C₁H₁₁NO₅ Benzenesulfonazole 1,2-dihydro 1-(naphthylsulfonyl) 975¹
- C H₁₁NO₄ Malonanilic acid α-paperythylene 567¹
- C₁H₁₁NO Acrylic acid = (3,4-methylenedioxyphenyl) β-9-nitro-m-aminyl 3533¹
- C H₁₁N₃ 3-Quinolinenitrile 2-β-toluene 1233¹
- C₁H₁₁N₃O Naphthoxazole 2 (p-aminophenylamino) 1,2-dihydro 2423¹
- C H₁₁N₃O Benzoic acid = [2-and 4] amino 1-naphthylazo] 510¹
- [res (2-phenyl 4-quinolylcarbonyl) 4837¹
- C₁H₁₁N₃O₂ Cisametalulide α-cyano-σ-nitro 1233¹
- † Naphthaldehyde 3-hydroxy-β-nitrophenylhydrazones 2145¹
- Naphthol methyl(p-utrophenylazo) 1241¹ 1515¹
- 1,2,4-Oxadiazole 3-benzoyl 5-phenyl oxime Acetate 3673¹
- C₁H₁₁N₃O₂ Naphthalene, methyl picrate 944¹ 1810¹
- C₁H₁₁N₃O₂ Lactone = amino 8-hydroxy 5-quinolyl methyl picrate 3725¹
- C₁H₁₁N₃O₂ 2,3-Triazomerceptin 4-aminos 6-ethyl picrate 2730¹
- C₁H₁₁AsCl₂NO Quino[4,3-β] 1,4-benzoxazine 7-chloro 7,12-dihydro 2-methoxy-6-methyl 1828¹
- C₁H₁₁AsCl₂NO₂ Quino[4,3-β] 1,4-benzoxazine 7-chloro 7,12-dihydro 2-methoxy-6-methyl "oxide, 1038¹
- C₁H₁₁AsNO₂ 2(1) Pyridone 3 [bis(phenyl) mercapto]aryll 4263¹
- C₁H₁₁BrNO₃ 2-Naphthalenesulfone = toluene 3-bromo-6-hydroxy 8408¹
- C₁H₁₁ClIN₃Se 3-Chloro 2-methyl 1 [(2-methyl 1,2-benzothiazolylidene) methyl]benzothiazolium iodide 5170¹
- C H₁₁NO₄6 Benzoic acid 8-hydroxy 1-methyl quinolaniumiodide 100¹
- C H₁₁N₃ 2,9-Pyrindole 3,4-dihydro 1-phenyl 301¹
- C₁H₁₁N₃O 2-Naphthaldehyde, 3-hydroxy, phenylhydrazones, 2146¹
- 2-Naphthol 6-methyl 1-phenylazo-, 1241¹
- C₁H₁₁N₃O₂ Anthranilic acid, V (4-methyl quinolyl) P 4633¹
- Benzoic acid, (4-methylquinolylamino), P 4663¹
- Cinchonamide, 6-methoxy 2-phenyl, 4884¹
- Cinchophen 7-amino 6-methyl, and -HCl, 699¹
- Cisammanilide, α-cyano-m-methoxy, 1253¹
- Imidaz[4,3-a]isoquinoline 6,6-diol, 5,6-dihydro-3-phenyl, and -HCl, 1231¹
- 4-Pyrazolol, 5-methyl 1-phenyl, benzoate, 3242¹
- C₁H₁₁N₃O₂ Benzocyclopent[β]indole, 7-acetyl 7,8,9,10-tetrahydro 5(1)-nitro-, 1522¹
- C₁H₁₁N₃O₄ 2,3-Pyrroldindione, 1 (3-nitro-p-tolyl)-5-phenyl-, 699¹
- C₁H₁₁N₃O₂ Naphtholorange, methyl, 2993¹
- C₁H₁₁N₃O₂ Malonanilic acid, α-methyl α-nitrobenzyl, 5671¹
- C₁H₁₁N₃O₂ Urea α (dihydroxyanthraquinonylmethyl) β (hydroxymethyl), P 6033 1242¹
- C₁H₁₁N₃O₂ Eugenol, 3,5-dinitrobenzoate, 2982¹
- Isoeugenol, 3,5-dinitrobenzoate, 2982¹
- C₁H₁₁N₃O₂ Meconin, 2 (3,6-dinitro-2,5-acetyl), 4519¹
- Meconin 3-nitro-2-[4 (and 6) nitro 2-5-acetyl], 4519¹
- C₁H₁₁N₃O₂ Pyrazole, 1 (2,4-dinitrophenyl) 3-methyl-5-p-tolylsulfonyl, 1247¹
- C₁H₁₁N₃O₂ Anisole, 2,4,6-trinitro, compd with C₁₀H₇NH₂, 850¹
- Quinoline 3,4-dimethyl, picrate, 705¹
- 2-ethyl picrate, 1829¹
- C₁H₁₁N₃O₂ Quinolins, 8-methoxy-5-methyl, picrate 954¹
- C₁H₁₁N₃O₂ Pyruvaldehyde m-nitrobenzoyl oxazone, 918¹
- C₁H₁₁O₂ Pteris 2-benzohydryl, 101¹
- 3-Pteridic acid, 1,5-diphenyl, compd with C₁₀H₇ and HCl, 3975¹
- C₁H₁₁O₃ Carbinol, diphenyl 2-thienyl-, 2143¹
- C₁H₁₁O₄ 2-Anthrone acid, ethyl, 5420¹
- Fluorene 2,7-diacetyl, 5416¹
- Monocarboxylic acid, m, 1838¹, from tetrahydrodioxanthene, 2997¹
- C₁H₁₁O₂ 9-Anthrol, 3-methoxy, acetate, 1019¹
- β-Butene acid, α-β-aminyl γ-hydroxy-γ-phenyl, lactone, 3324¹
- 4-Chromanone, 3-aminyl, 1534¹
- Crotonic acid, α-β-aminyl γ-hydroxy-γ-phenyl, lactone, 3324¹
- C₁H₁₁O₂ 2-Anthrone acid ethyldihydro hydroxyphenyl, 5420¹
- Chalcone, β-hydroxy methylcarbonate, 3631¹
- 4-Chromanone 3-aminyl, 1534¹
- Chrysin 3-ethyl-, 4207¹
- Coumarin, 7,8-dimethoxy 4-phenyl, 5671¹
- 9,9-Fluorenedicarboxylic acid, di Me ester, 4254¹
- Hydroquinone, monoacetate, monoacetalate, 66¹
- 1,1-Isodandicarboxylic acid, 3-phenyl, 1517¹
- Isocoumarin, 7,8-dimethoxy-3-phenyl, 5594¹
- Isoflavone, 4',7-dimethyl-, 5675¹
- , γ-hydroxy 4-methoxy 2-methyl, 3327¹
- Phthalide, 2-aminyl-6-methoxy 288¹
- Δ²-1-Fropenol, 3-(3,4-methylenedioxyphenyl), benzoate, 2703¹
- C₁H₁₁O₃ 2-Naphthol, 1 (2,5-cresylsulfonyl)-, 5674¹
- C₁H₁₁O₄ 4-Chromanone, 3-aminyl 7,8-dihydroxy, 1534¹
- , γ-hydroxy 3-aminyl, 1534¹
- Isolavone, 7-hydroxy-4,5-dimethoxy, 5673¹

- Piperoylic acid, *n* phenacyl, 3324*
- C₁₇H₁₄O₄ + 11/2 O 4 - Chromanone, 7,8 dihy
drosy 3-vanillin, 1534*
- C₁₇H₁₄O₄ Acid *m* 199*, from xylenes, 125*
- C₁₇H₁₄S₂ Thiophene, 2-benzothiadyl, 2143*
- C₁₇H₁₄As Arsonic, methyl-1 naphthylphenyl
1516*
- C₁₇H₁₄AsN₂O₄ Quinox[4,2-β] - 1,4 - benzaz
aronic acid, 2 - methoxy - 6 - methyl,
1528*
- C₁₇H₁₄AsN₂O₄ Arsanilic acid, *N* - (*N* - quinoxyl
glycyl), nitroso deriv, 2999*
- C₁₇H₁₄BrN₂ Acrylonitrile, β - (3 - bromo - 4
dimethylaminophenyl) - *o* phenyl
1508*
- C₁₇H₁₄BrN₂O₄ Phthalimide, 2 - (4 acetamido
2 - bromophenyl) - 2 methyl-, 4273*
- C₁₇H₁₄BrN₂S₂ 2 - Methyl - 1 - (2 - methyl 1
(2) - benzothiazolylidene(methyl)benzo-
thiazolum bromide, 703*
- C₁₇H₁₄ClN₂O₄ 2(1) - Thionaphtheneone, chloro
1 - (β - dimethylaminophenyl) -
methyl, 5163*
- C₁₇H₁₄ClN₂O₄ 2 Methyl - 1 - {(2 methyl
1(2) - benzothiazolylidene(methyl)benzo-
thiazolum perchlorate, 5169*
- C₁₇H₁₄ClN₂S₂ 2 - Methyl - 1 - (2 - methyl
1(2) - benzothiazolylidene(methyl)benzo-
thiazolum chloride, 703*
- C₁₇H₁₄ClN₂O₄ Isoquinoline 1 - (chloromethyl)
3,4 - dihydro - 5 - methoxy -, picate,
1831*
- C₁₇H₁₄ClO₄ + 2H₂O 2',4' Dimethoxydavylium
chloride, 515*
- C₁₇H₁₄IN₂S₂ 2 - Methyl - 1 - (2 methyl 1(2)
benzothiazolylidene(methyl)benzothiazolum
iodide, 703*
- C₁₇H₁₄N Naphthylamine, bromyl, 1515*, 1517*
- C₁₇H₁₄N₂ Benzocyclopentanole, acetyltetra-
hydro-, 1522*
- 2 Naphthol, β-*p*-toluene-, P 5031*
- 2 Naphthylamine, β-benzoyl P 302*
- C₁₇H₁₄NO₄ Acrylonitrile, β (dimethoxyphenyl)
n phenyl-, 2710*
- β - Butanamide acid, *n* *p* acrylyl 7
hydroxy-γ phenyl-, lactone 3325*
- Homocoumarin, *n* phenacyl, 3324*
- Iodene, 1,1-dimethyl 3 nitro 2 phenyl
695*
- Oxazole, 2 - *p* - anisyl - 4 - methyl 5
phenyl, 293*
- C₁₇H₁₄NO₄S 1 - Naphthalenesulfonamide 7
methyl, 1516*
- C₁₇H₁₄NO₄o Couamotoluides 3,4 methylene-
di-, 5071*
- Δ⁴ Oxazoline, 2 *p* acrylyl 4,5 epoxy-4
methyl 5 phenyl-, 294*
- 4(1) - Quinoxaline, 2 - *p* anisyl 5 methoxy -
1830*
- C₁₇H₁₄NO₄S 2 - Naphthalenesulfonamide 3
methoxy 2138*
- C₁₇H₁₄NO₄ Cinnamic acid, *n* benzamide-
methoxy, 1509*
- Homopiperonylamine, *N* piperonylidene-,
2632*
- Malonic acid, α-anisyl, 5673*
- Piperoylamine, *n* phenacyl 3325*
- Δ³ - 1 - Propenol, 2 - (3,4 - methylenedioxy-
phenyl), carbanilate, 2708*
- C₁₇H₁₄NO₄ Malonic acid, *n* piperonyl-, 5673*
- Series, *N* benzyl benzoate, 1534*
- C₁₇H₁₄NO₄ Mecouate, 2 - (2,5 - cresyl) - 2 -
nitro-, 4519*
- Mecouate 2 (3 nitro 2,5 cresyl) 4519*
- C₁₇H₁₄NO₄S 2(3) Thiazolone 1 *p* tolyl,
hydrazone Bz deriv, 1532*
- C₁₇H₁₄N₂O₄ Acrylonitrile, β (4 dimethyl
amino 2 nitrophenyl) - *n* phenyl,
1508*
- Cinchophen 6 methoxy hydrazide, 4584*
- Dicinnamal phenylhydrazide, 2981*
- 1,3(2,4) Isoquinolinedione, 4-xylylazo-
2648*
- Phthalaz 1 one 4 amino 2 phenyl
4 methyl- A deriv, 4273*
- C₁₇H₁₄N₂O₄ Glynnine, acetamidophenyl, Bz
deriv 1490*
- Glyoxylhydroxamicamide *n* phenyl
amide, Ac Bz deriv, 3623*
- C₁₇H₁₄N₂S₂ Ketone methyl 4 phenyl 2
thiazyl, phenylhydrazide 2722*
- Semcarbazide, 4 (1 naphthyl) 1 phenyl
thio- 2701*
- 2(3) Thiazolone, 4 *p* - tolyl amine with
BzH, 1532*
- C₁₇H₁₄N₂O₄ Pyrazobenzotriazole, 4,5 dihydro
5 hydroxy 2 methyl 7 nitro 4 *p*
tolyl 5-oxide, 1246*
- C₁₇H₁₄ Anthracene, trimethyl, 299*, 3646*,
4547*
- Iodene, 1,1-dimethylphenyl-, 694*, 4240*
- Pimarothene, methyl, 2136*
- C₁₇H₁₄AsN₂O₄ Arsanilic acid *N* (*N*-quinoxyl
glycyl), and *N* salts 3999*, 5
- C₁₇H₁₄BrN₂O₄ Chalcose, 3 bromo 4 dimethyl
amino-, 1509*
- C₁₇H₁₄BrN₂O₄ Carbanilic acid, 3 benzo 2
hydroxy 5 methyl Et ester, benzo-
ate, 1405*
- C₁₇H₁₄BrN₂O₄ Propiophenone *n* *p* dibromo *p*
sibery *p* phenyl, 1819*
- C₁₇H₁₄Cl₂FeNO₄ Isoazole, 3,4-diphenyl, Et
deriv, FeCl₂ deriv 514*
- C₁₇H₁₄Br₂O₄ Cresol, *o*-phenyl- but(acetoxy
mercure) deriv, 4234*
- C₁₇H₁₄NO₄ Anisamide, and salts, 705*
- C₁₇H₁₄N₂ Acrylonitrile, β (β dimethylamino-
phenyl) *o*-phenyl, 1509*
- C₁₇H₁₄N₂O₄ Benzol[cylopent[β]indole, 1(?)
acetyl 7,8,9,10 tetrahydro -, oxime
1522*
- Quinoxaline 4 anilino 5 methoxy -, and
HCl, 1528*
- Quinoxaline 4 amino 5 ethoxy-2-phenyl
and HCl, 4884*
- C₁₇H₁₄N₂O₄ Cinnamaldehyde, *n* methyl 3,4
methylenedioxy, phenylhydrazide, 1230*
- Phthalazine, 1 benzyl 6,7 dimethoxy
297*
- Phthalimide, 2 (β acetamidophenyl) 3
methyl, 4273*
- Tryptophol, carbanilate, 514*
- C₁₇H₁₄N₂O₄ Anthranilic acid, 5-nitro *N* pro-
pyl-, benzyl ester, 4244*
- C₁₇H₁₄N₂O₄ Thymol, 3,5-dinitrobenzoate, 2982*
- C₁₇H₁₄N₂O₄ 2,6-Cresotic acid, *o*,*o*' uricidib,
5399*
- Guaccol, 4 - propyl -, 3,5 dinitrobenzoate,
2982*
- C₁₇H₁₄N₂O₄ 2 Naphthylamine, 3,4 dihydro
N methyl, picate, 2139*
- Δ³-Pyrazolone, 2 benzyl, picate, 2997*
- 1 - methyl - 2 - phenyl, picate, 102*
- C₁₇H₁₄N₂O₄ 1 Propanol 3 (3 iodyl), picate
514*

- C₁₁H₁₂N₂S₂ 2(3) Thiazolone, 4 *p* tolyl, 4 phenylthiosemicarbazone, 1532⁴
- C₁₁H₁₀O₂ Δ¹⁻³ Pentenone, 1 5-disphenyl, 4550⁴
- C₁₁H₁₀O Anthrone 10 methoxydimethyl, 2991¹, 3616⁴, 4547¹
- 1 3 Butanedione 2 benzyl 1 phenyl-, 52¹
- 1 Isobutyroxy acid, 3 phenyl Me ester, 1517¹
- Δ¹ 3 Pentenone 5 phenyl 1-salicyl, 453⁴
- 1 3 Propanedione, 2,2 dimethyl-1 3 diphenyl, 3642¹
- C₁₁H₁₀O Anthracene 1 2 10-trimethoxy, 1520⁴
- Benzoic acid, α (ω, α dimethylphenacyl), 534¹
- 1 3(2) Benzonaphthenedione 2 butyl 4 hydroxy, 2140⁴
- Pyruvic acid diphenyl, Et ester 941¹
- C₁₁H₁₀O₂ Acetic acid, (α-phenacylbenzylmercapto), 3830⁴
- C₁₁H₁₀O Homosuccinic acid, α phenacyl, 3324⁴
- Phthalide 6 methoxy-2-*p* methoxybenzyl, 285¹
- C₁₁H₁₀O Acetophenone, 4 hydroxy-2,6 dimethoxy, benzole, 4200⁴
- Benzoic acid, α-(2 4-dimethoxy m tolyl), 3336¹
- Meconic 2 (2 5-cresyl), 4519¹
- Opianic acid benzylester 5897¹
- Phlorohutyphenone 4-benzoate, 4250⁴
- C₁₁H₁₀O Benzole and 4 methoxy 3,4' oxybis-di Me ester, 2³¹
- C₁₁H₁₂AsN₂O₂ m Arsenic acid, N (6 methoxy 2 methyl-4-quinoly), 704¹
- o Arsenic acid N (6 methoxy 2 methyl-4-quinoly), 1529¹
- C₁₁H₁₂ClN₂O₂ Salicylic acid, (p tolylate), compd with C₁₀COCl₂, 3322¹
- C₁₁H₁₂FN₂O₂ Piperidine, 1 14 (p Buoro phenyl)-3 nitrophenyl, 4203¹
- C₁₁H₁₂IN₂ 1 Methyl-α (1 methyl 2(1) pyridylidene)quinazolinum iodide, 4269¹
- C₁₁H₁₂N Acridine, 1,3,7,9 tetramethyl-, 4533¹
- γ-Benzocarbazole, 8,9,10,11 tetrhydro-8-methyl, 1523¹
- Protuberberine, tetrhydro-, 3347¹
- C₁₁H₁₂NO Chalcone 4-dimethylamino-, 1505¹
- Cinnamamide, N ethyl, 1509¹
- Crotonophenone β - amino-*p*-methyl, 4851¹
- C₁₁H₁₂NO₂ (See also Apomorphine)
- Δ¹ 2-Butenal, 4-phenyl, carbamate, 923¹
- o-Cinnamotolide, *p*-methoxy-, 5671¹
- Phthalimide, 3 methyl 2 *p* phenetyl, 4273¹
- C₁₁H₁₂NO₂ Cinnamamide, 3,4 dimethoxy, 5671¹
- Propionamide, o-hydroxy, α-toluato, 1815¹
- α-Toluamide, *p*-methoxy-α-phenacyl, 3320¹
- α-Toluamide, o'-hydroxy-γ-propionate, 1815¹
- C₁₁H₁₂NO₂ 2-Naphthalenesulfonic acid, 5-methyl-, azine salt, 1241¹
- C₁₁H₁₂NO₂ Benzonic acid, *p* (p - acetamidophenoyl)-, Et ester, 2705¹
- Benzon, dimethylammonomethylenedioxy, 3644¹
- Carbamitic acid, o-hydroxy, Et ester, α-toluato, 1815¹
- Homopiperonylammon, N piperonyl, and salt, 3633¹
- C₁₁H₁₂NO₂ 1-Methyl 2-phenylquinoxalium methylenesulfate, 296¹
- C₁₁H₁₂NO₂ Benzoic acid, *p* (p-nitrophenoyl)-Et ester, 2705¹
- C₁₁H₁₂NO₂ 3-JH₂O Apomorphinesulfonic acid, 1a32¹
- C₁₁H₁₂NO₂ Phenethyl alcohol 3,4 dimethoxy-*p*-nitrobenzoate, 3632¹
- C₁₁H₁₂NO₂ Crotonophenone (1), 4 phenylbenzoate, 2132¹
- Isocrotonophenone (1), 4-phenylsemicarbazone, 2132¹
- Quinaldine, 4 (aminoamino) 6-methoxy, 704¹
- C₁₁H₁₂NO₂ Compd, m 194°, from dihydromonocyclopentadienonequinone and PhN, 1505¹
- 1,2-Propanedione, 1 phenyl 2-oxime, 1 phenylhydrazonate, Ac deriv, 1527¹
- C₁₁H₁₂N₂O₂ Benzene, 4' methoxy-3,4-methylenedioxy, semicarbazone 45¹
- C₁₁H₁₂N₂O₂ Benzene, 2,4-dimethoxy-1-propenyl, picrate, 5507¹
- C₁₁H₁₂N₂S₂ Crotonophenone (1), 4 phenylthiosemicarbazone, 2132¹
- Isocrotonophenone (1), 4-phenylthiosemicarbazone, 2132¹
- 1,4,3 Isobutyramine, 2-toluato 5-*p* tolyl and-HCl, 1532¹
- 1,3,4 Triazole, 2-(ethylmercapto)-5-phenyl 1-(and *p*) tolyl-, 2119¹, 2120¹
- C₁₁H₁₂N₂O₂ 1,2,5-Triazole, 3-(*p* dimethylaminoethyl) 4-methyl-1 (p-nitrophenyl), and salt, 933¹
- C₁₁H₁₂N₂O₂ Benzyl(cyanomethyl)dimethylammonium picrate, 91¹
- Indole, 3-(β-aminoethyl)-1-methyl, picrate, 301¹
- C₁₁H₁₂N₂O₂ Indole, 3-(β-aminoethyl)-5-methoxy, picrate, 301¹
- Pyridine, β-(1-acetyl-2-pyrrolyl), picrate, 300¹
- C₁₁H₁₂BrNO Propiophenone, *p*-bromo-α-dimethylamino β-phenyl and -HCl, 91¹
- Propiophenone, β-(bromophenyl)-α-dimethylamino, 91¹
- C₁₁H₁₂BrNO₂ 2-Pyrrolicarboxylic acid, 4-(β bromovinyl) 5-formyl-3-methyl, Et ester, phenylhydrazonate, 1520¹
- C₁₁H₁₂BrH₂O₂ Methane, bromo(hfomer cuthox) *p* phenetyl, 2413¹
- C₁₁H₁₂N₂O₂ Anabaine, benzoyl, 3347¹
- Cinnamalddehyde, *p*-methoxy-α-methyl, phenylhydrazonate, 1230¹
- C₁₁H₁₂NaO₂ 2(1)-Quinoxaline, 4-ethoxy-3,4-dihydro-2-thio-3-tolyl, 3223¹
- C₁₁H₁₂N₂O₂ Acetamide, α-benzamido-N-phenethyl-, 1530¹
- C₁₁H₁₂N₂O₂ Benzoic acid, 5-amino-2-propionylammon, benzyl ester, -HCl, 4245¹
- Propiophenone, α-dimethylamino-β-(*p*-nitrophenyl), 91¹
- α-Toluic acid, veratrylhydrazide, 29¹
- C₁₁H₁₂N₂O₂ Acetamide, *p*, *p*' methylenedioxy, 3323¹
- Ephedrine, N-*p*-nitrobenzoyl, 5671¹
- Ethanol, 2-benzylmethylammon, *p*-nitrobenzoate, -HCl, 2709¹
- C₁₁H₁₂N₂O₂ Camphor, α-hydroxy, dimuobenzoate, 4571¹
- Epicamphor, 2-hydroxy, dimuobenzoate, 4571¹

- C₁₇H₁₉N₂O₃S Carbamide, *p*, *p'*-diacetamidothio-, 1601²
- C₁₇H₁₉N₂O₃ Carbamide, *p*, *p'*-diacetamido-, 1503²
- C₁₇H₁₉N₂O₃ Theobromone, 1 (*β* hydroxy propyl) benzoate, 1031¹
- C₁₇H₁₉N₂O₃ Quinoline, 1, 2, 3, 4 tetrahydrodi methyl pterate, 7051²
- Urea, *s*-bis(2-hydroxy 3-methyl 3-nitrobenzyl)-, 5399²
- Urea, *s*-bis(4-methoxy-3-nitrobenzyl)-, 5399²
- C₁₇H₁₉N₂O₃ 2 Iodanamine, 1 methoxy *N* methyl, picrate 2139²
- C₁₇H₁₉N₂O₃ Benzyl(carboxymethyl)dimethyl ammonium pterate, 91²
- C₁₇H₁₉N₂O₃ *o*-Toluic acid, *α*-amino-3, 4, 5-trimethoxy, picrate, 1226²
- C₁₇H₁₉N₂O₃ + 11₂O Anisaldehyde, 1 (*β* formyl phenoxyl), decumcarbazone, 2983²
- C₁₇H₁₉O₃ 2 Butanone, 3 benzyl 4 phenyl 3554¹, 5421²
- 1 Iodanol, 3,3-dimethyl 1 phenyl, 4240²
- 2 Propenone, 1,3-ditoly, 5409²
- C₁₇H₁₉O₃ 2 Butanone, 4-phenyl 4 *p* tolylmercapto-, 489²
- C₁₇H₁₉O₃ Butyric acid, diphenyl, Me ester 3329¹, 4240²
- Isoeucrol, benzoate, 4533²
- Mentol, *α*-phenyl, acetate 929²
- Phenol *p*-butyl benzoate, 1229¹
- C₁₇H₁₉O₃ Dehydrothabevone, 2002²
- C₁₇H₁₉O₃ Butyric acid, 5-*p*-amyl *β* hydroxy-*α* phenyl, 3584²
- Glyceric acid *β* *β*-diphenyl, Et ester 941²
- 2 Propanol 1,3-diphenoxyl, acetate 2692²
- C₁₇H₁₉O₃ 5-*m*-Dioxanol 2 phenyl, *p* toluenesulfonate 3962²
- C₁₇H₁₉O₃ *m*-Toluenediol trihydroxy, penta acetate, 933², 3979²
- C₁₇H₁₉BrN₂O₃ Methone from cryptopyrrole and 4-(5-bromovinyl) 5 formyl 2 methyl 2 pyrrolecarboxylic acid, *E*, *B*, 1520²
- C₁₇H₁₉BrN₂O₃ Dimethyl *p* nitrobenzylphenacylammonium bromide 91²
- C₁₇H₁₉BrN₂O₃ Benzyl(*p* bromophenacyl)dimethyl ammonium bromide 91²
- Bromobenzyl dimethylphenacylammonium bromide 91²
- C₁₇H₁₉ClN₂O₃ Phenol, *p*-phenylazo-, isovaleryl chloroacetyl compd., 3321²
- C₁₇H₁₉EN₂O₃ Potassium salt of osazone of compd from 2-methyl 2,3 butadiene sulfone, 277²
- C₁₇H₁₉NO Hydrocinnamamide, *N*, *β*-dimethyl, 489²
- Isoquinoline, 1, 2, 3, 4-tetrahydro-1 (*β* methoxybenzyl)-, and -HCl, 4552²
- C₁₇H₁₉NO₃ *α*-Cresol, 4 propyl, carbamate, 929²
- Ethanol 2 beneylmethylamino-, benzoate HCl, 2709²
- Isoeucrol, carbamate, 4533²
- 0-Isoquinoline, 1, 2, 3, 4-tetrahydro-1- (*β* methoxybenzyl)-, and -HCl, 4552²
- Phenethylamine, *N*-amyl-*p* methoxy-, 3632²
- , *N* veratral, 3632²
- α* Toluamide *p* methoxy *N* phenethyl, 4532²
- C₁₇H₁₉NO₂ (See also Morphine, Piperine)
- Benzoic acid, *p* (*β* aminophenoxyl), Baeser and HCl, 2705²
- C₁₇H₁₉NO₂ Benzamide, *N* (2, 3, 4 trimethoxy benzyl), 1226²
- 1-Lithanol, 1- (*α* methoxyphenoxyl) 2 (*α*-methoxybenzyl)decyldecylamino- 516²
- Phenethyl Alcohol, 3, 4-dimethoxy, *car* basulate 3632²
- C₁₇H₁₉NO₂ *p* Acetamidamide 5154²
- C₁₇H₁₉NO₂ Malonic acid, (methoxymethyl) phthalimide-*d*, Et ester, 1468²
- C₁₇H₁₉NO₂ Benzaldehyde *m* nitro-, 2 *p* cymylhydrazone 1227²
- 4 Isopyrrolepropionic acid 2 (4 cyano 3, 5 dimethyl 2 pyrrolylmethylene) 3, 5 dimethyl, *E*, *B*, 698²
- C₁₇H₁₉NO₂ Benzoin 2 4-dimethoxy, semi carbamate, 4876²
- C₁₇H₁₉NO₂S Alanine, *N* [*N* (*N* 2 naphthalenesulfonylethyl)glycyl], 2⁴¹
- Glycine *N* [*N* (*N* 2 naphthalenesulfonylethyl)alanyl], 2741²
- C₁₇H₁₉NO₂ Benzene pentamethyl, picrate 1813²
- Mecalone *N* (2, 4-dinitrophenyl), 5405²
- Phenethylamine, *N* (2, 4 dinitrophenyl) 2 4 6-trimethoxy, 5405²
- C₁₇H₁₉N₂S Carbamide acid, *o* (and *p*) methyl thiol Et ester azote with Ball, and salts, 2149², 2150²
- C₁₇H₁₉N₂O₂ Theobromone, 1 (*β* hydroxy propyl), carbamate 1031¹
- C₁₇H₁₉N₂O₂ Pyridine, 3 (1 ethyl 2 pyrrolyl), picrate 300²
- C₁₇H₁₉ Butane 2 benzyl 1 phenyl, 5425²
- Compd, *m* 26-7² from agathidicarbonylic acid 1232²
- Pentane, 1,5-diphenyl, 4543²
- C₁₇H₁₉AsN Phenazene, 1,6 dihydro 1 isomyl, 1831²
- C₁₇H₁₉AsNO Phenazene, 1,6-dihydro-1-isomyl, 1-oxide 1831²
- C₁₇H₁₉BrN₂O₂ Nucic, 2 hydroxy-3, 4-dibromo, 765², 334²
- C₁₇H₁₉N₂ Debenzylamine, *N* ethyl *p*-fluoro-*p'* methyl, 929²
- C₁₇H₁₉N₂ Allylbenzylmethylphenacylammonium iodide 1502²
- C₁₇H₁₉N₂O₂ Sec Centralite
- C₁₇H₁₉N₂O₂ Compd, *m* 63², from beneylamine and benzaldehyde, 2 methylbenzylcarbazone, 2701²
- Ethanol 2 beneylmethylamino-, *p*-aminobenzoate, *α*-HCl, 2⁴⁰
- C₁₇H₁₉O₂S Carbamide, *p*, *p'*-dimethoxythio-, 4243²
- C₁₇H₁₉N₂O₂ Allylbenzylmethylphenacylammonium nitrate, 1502²
- Carbamide, *p*, *p'*-dimethoxy-, 936²
- Isoleucine, *N* 1 naphthylcarbamyl, 2417², 2118²
- Nuclease, 2,3-diketo-, 705², 4002², 4275²
- Phthalimide, *N* (aminotolyl)hexahydro-, Ac derivative, 701²
- α*-Toluic acid, *p* veratrylhydrazide, 297²
- Urea, *s*-bis(2-hydroxy 5-methylbenzyl), *P* 1251², 4399²
- , *α* (3, 4 dimethoxyphenethyl) *β* phenyl 540²
- C₁₇H₁₉O₂ Compd, *m* 213-5², from oxidation of tetrahydrostrychnine and perchlorate, 2431², 2432²

- Nucleic acid, 2,3-diketo-, amine oxide, *per alioris*, 700⁹
- 3 Pyrrolicarboxylic acid, 2 (4 acetyl 3,5 dimethyl 2-isopropylidenemethyl) 5 hydroxy 4 methyl, Et ester, 4010⁹
- C₁₇H₁₇N₃O₄ 2 - Pyrrolicarboxylic acid, 5,5 carbonylbis[3 ethyl 4 methyl 1,4 dimethyl 2-isopropylidenemethyl] 2,3-diketo-, 4010⁹
- C₁₇H₁₇N₃O₄ Boric acid, dinitrobenzoate 4871⁹
- Camphanol, dinitrobenzoate, 4871⁹
- Epibornol, dinitrobenzoate, 4871⁹
- Isobornol, dinitrobenzoate 4871⁹
- C₁₇H₁₇N₃O₄ Al - Nucleic acid, 2 keto-, hydrate, 700⁹
- C₁₇H₁₇N₃O₄ Nucleic acid, 2,3-diketo-, hydrate, 705⁹
- C₁₇H₁₇N₃O₄ Benzophenone, *p* *p'* bis(dimethyl amino)thio-, 1239⁹
- C₁₇H₁₇N₃O₄ 2,3-Pentanedione phenylazono 1489⁹
- C₁₇H₁₇N₃O₄ Acetoacetic acid, (3,5 dimethyl 1 phenyl 4 pyrazolylazo), Et ester, 1523⁹
- C₁₇H₁₇N₃O₄ Urea, *o* *o'* - methylenebis[3,5 dihydroxybenzyl-] 339⁹
- C₁₇H₁₇N₃O₄ Meadine, V, N-dimethyl-, picrate, 4533⁹
- C₁₇H₁₇N₃O₄ Aniline N,N dimethyl *m* propoxy picrate 5669⁹
- 2,4 - Xyldine, *o* *o'* methoxy N,N - di methyl-, picrate, 1814⁹
- C₁₇H₁₇N₃O₄ 2,4-Pentanediamine dipicrate, 4223⁹
- C₁₇H₁₇O₄ Camphor, benzoyl, 5628⁹
- Caprophenone, *β* 2 furyl *α* methyl, 5424⁹
- Valerophenone, *α* ethyl *β* 2 furyl, 5424⁹
- , *β* 2 furyl *α* *α'* dimethyl, 5424⁹
- C₁₇H₁₇O₄ 2 - Propanol, 1,3 - bis(benzoyloxy) 910⁹, 2692⁹
- 2 Propanol, 1,3-ditoloyl, 916⁹
- Thebanone, 3002⁹
- C₁₇H₁₇N₃O₄ Isopropylpropionic acid, 2 (3 bromo - 3 - ethyl 4 methyl - 2 pyrryl(methylene)dimethyl) *HBr*, 111⁹, 4009⁹
- 3 Pyrrolicpropionic acid, 2 (3 bromo - 3 - ethyl - 3 - methyl 2 isopropylidenemethyl) 4,5 dimethyl - *HBr*, 111⁹
- C₁₇H₁₇N₃O₄ Nucleic acid, 3 keto 3(or 4) bromo-, hydrate, 3349⁹
- C₁₇H₁₇N₃O₄ Dibenzylidimethylammonium iodide, *CHBr* compd., 282⁹
- C₁₇H₁₇N₃O₄ (p - Fluorobenzyl)dimethyl(p - methylbenzyl)ammonium iodide, 925⁹
- C₁₇H₁₇N₃O₄ Dibenzylpropylsulfonium mercuric triiodide, 689⁹
- C₁₇H₁₇N₃O₄ (α - Benzylamino) *p* (tolyl)trimethyl ammonium iodide, 4249⁹
- (α - Benzylamino) *p* (tolyl)trimethyl ammonium iodide, 4249⁹
- C₁₇H₁₇N₃O₄ Dibenzylamine, N-ethyl *p* methyl, 925⁹
- C₁₇H₁₇N₃O₄ Anthranic acid, N - 2 camphanyl idene-, *Ph coll*, 940⁹
- Benzoic acid, *p* 2-camphanylidenecamphor-, 940⁹
- 2 Ictanol, 1 naphthalenecarboxylate, 1819⁹
- Phenethylamine, N - benzyl - 3,4 - di methoxy, *and - HCl*, 3633⁹
- Veratrylamine N - (p methoxyphenethyl) - *and salt*, 3633⁹
- , N phenethyl-, *and salt*, 3633⁹
- C₁₇H₁₇N₃O₄ *p* - Toluenesulfonamide, N methyl V - (γ phenylpropyl) - 2709⁹
- p* - Toluenesulfonamide, N - (3 - phenyl butyl) 2709⁹
- Toluenesulfonamide, *see butyl*-, 283⁹
- , N, 2, 4, 6-tetramethyl-, 4533⁹
- C₁₇H₁₇N₃O₄ Benzyl alcohol, *o*-methoxy-*o*-methoxybenzylammonium iodide, 516⁹
- Morphine, dihydro-, *Ph* 523⁹
- Thebanone, oxime, 3002⁹
- C₁₇H₁₇N₃O₄ (*See also Alotracine Cocaine Scopol amine*)
- Glutaric acid *β* benzyl - *α* cyano-, di Et ester, 1603⁹
- *α* cyano *γ* methyl - *β* phenyl -, di Et ester, 82⁹
- 3 Isodolebutyric acid, 2-carboxy-, di Et ester, 514⁹
- C₁₇H₁₇N₃O₄ 3 Isodolepropionic acid, 2-carboxy *γ* methoxy-, di Et ester, 4880⁹
- C₁₇H₁₇N₃O₄ Caprophenone, *β* - 2 furyl-, semi carbazono, 5424⁹
- Carbamide, *α* *γ*-di *p*-phenetyl-, 3089⁹
- C₁₇H₁₇N₃O₄ Caprophenone, 4' methoxy 2',6'-dimethyl-, 2711⁹
- C₁₇H₁₇N₃O₄ Buene, 2 thio *β*-*o* toluene 1-(3,4-xylyl), 3634⁹
- C₁₇H₁₇N₃O₄ Theobromine, 1 (5 *p* - phenet dimethyl) 1031⁹
- C₁₇H₁₇N₃O₄ Compd., *m* 126⁹, from N, N' - dicarboxy 3,8 - endomethylepetetra hydroindazole, 1807⁹
- C₁₇H₁₇N₃O₄ Benzylmethylphenylammonium iodide, 282⁹
- C₁₇H₁₇N₃O₄ Phenazone, 1,6 dihydro - 1 isononyl, 1,1-dihydroxy deriv., 1831⁹
- C₁₇H₁₇N₃O₄ Benzylmethylphenylpropylammonium bromide, 1502⁹
- C₁₇H₁₇N₃O₄ Isopropyl-, 5-bromo - 2,5 bromomethylpropyl 2-pyrryl(methylene) methylpropyl, *see HBr*, 3009⁹, 3010⁹
- Isopropyl-, 2-(3-bromo - 3-ethyl - 4-methyl-2-pyrryl(methylene)) 5-(bromomethyl) 3-methyl 4-propyl, *HBr*, 1257⁹
- C₁₇H₁₇N₃O₄ Benzylmethylphenylammonium iodide, 282⁹
- Trimethyl(*p* - phenethylphenyl)ammonium iodide, 100⁹
- C₁₇H₁₇N₃O₄ Aniline, *p*, *p'* methylenebis[N,N dimethyl-, 1501⁹
- C₁₇H₁₇N₃O₄ Hydrazine, 2-*p*-cymyl-, benzoate, 1227⁹
- Nucleic acid, 705⁹
- 3 - Pyrrolicarboxylic acid, 2 (5 methyl 3-propyl - 2 isopropylidenemethyl) 4-propyl, *HBr*, 3010⁹
- 3 Pyrrolicpropionic acid, 2 (4 ethyl - 3 methyl - 2 isopropylidenemethyl) 4,5 dimethyl - *HBr*, 111⁹
- C₁₇H₁₇N₃O₄ Benzylmethylphenylpropylammonium nitrate, 1502⁹
- Isopropylpropionic acid, 2 - (ethyl - 5 hydroxymethyl 2 - pyrryl(methylene) dimethyl- 4009⁹, 4009⁹)
- Nesantholcarubic acid, Me ester 1837⁹
- Nucleic acid, dihydro-3,2-diketo-, 4275⁹
- , 2-keto - 3-hydroxy *and perchlorate* 706⁹
- Nucleic acid, 2-hydroxy, 705⁹
- 3 - Pyrrolicarboxylic acid, 2 - (4-ethyl 2,6-dimethyl 2-isopropylidenemethyl) 5-hydroxy - 4-methyl -, Et ester, 4010⁹
- Xantholcarubic acid, 4009⁹
- C₁₇H₁₇N₃O₄ Nucleic acid, 2 keto-, hydrate, 705⁹

- C₁₁H₂₁N₂O₂ Camphoramic acid, methylurea 2711¹
 Malonic acid, allyl - β - phenylcarbamide di Et ester, 1493¹
 Nucleonic aldehyde, 3 keto 2 hydroxy salt 709¹
 Nucne 2 keto-3 hydrazo-, hydrate, 3348¹
 C₁₁H₂₁N₂O₂ Camphoramic acid 2 methoxy urea, 2711¹
 Cyclohexanol, 2 butyl , 3,5 dinitrobenzoate, 1509¹
 Nucleonic acid 3 keto-2 hydroxy and per chlorate, 709¹
 Nucne, diketo- dihydrate "60", 3348¹ 4275¹
 C₁₁H₂₁N₂O₂ Carbamic acid phenethylidene-, phenethylammonium salt, 4241¹
 C₁₁H₂₁N₂O₂ Alanine V [V (V hippuryl alanyl)glycyl] 2741¹
 C₁₁H₂₁N₂O₂ Pyrrazole 3 methyl 3 4 dipropyl picrate, 3010¹
 C₁₁H₂₁N₂O₂ 1,3 Cyclopentanediol, 2 amyl 5 phenyl, 657¹
 Linalool benzoate 3311¹
 C₁₁H₂₁N₂O₂ 1,3 Indandione, 2 - heptyl 4 hydroxy - 7 - methyl , 2718¹
 C₁₁H₂₁O₂ Spiro[eycloheptane 1,2 indan] 2 5 - dicarboxylic acid benahydro 3 4 diketo- di Me ester 3333¹
 C₁₁H₂₁N₂O₂ Nucleonic 3 bromo 2 keto dihydric 4275¹
 C₁₁H₂₁N₂O₂ Tyrosine V (a bromosacopryl)nitro-, Et ester 2094¹
 C₁₁H₂₁N₂O₂ Pelargonic acid β bromophenacyl ester 1820¹
 C₁₁H₂₁ClN₂O₂ Isopyrrole 2 [chloro(ethylidimethyl 3 pyrrolyl)methylketohydrate dimethyl-, and HCl 3900¹
 C₁₁H₂₁NO₂ m Admidine N 2 camphoroyldeone-940¹
 Base b 143-5° from ketone formed from Me lupaninate and PhHgBr, 4004¹
 Benzamide, N-3-carboxyethyl-, 1231¹
 2 Indanacetamide 3a 4 5 6 7,7a benahydro-, 3333¹
 Trimethylphenylammonium 2 4-dimethyl phenoxide 4242¹
 C₁₁H₂₁NO₂ Tropox, hydromonamide 5429¹
 C₁₁H₂₁NO₂ (See also Atropine Hyoscyamine) Camphoramic acid methyl-, 2712¹
 C₁₁H₂₁NO₂ a Camphorsulfonotoluene, 3322¹
 C₁₁H₂₁NO₂ Atropine N-oxide, 1289¹
 Camphoramic acid methoxy 2711¹
 Hyoscyamine N-oxide 1289¹
 Stemonine 4551¹
 C₁₁H₂₁NO₂ Nucleonic aldehyde 3 keto 2 hydroxy, oxime, HBr, 709¹
 C₁₁H₂₁NO₂ Alanine N-1N [N (V phenyl carbamylalanyl)glycyl]glycyl] 2741¹
 Alanine, N 1 V [N (N phenylcarbamylglycyl)alanyl]glycyl] 2741¹
 Glycine, N-1N [N (N phenylcarbamylalanyl)glycyl]alanyl] 2741¹
 C₁₁H₂₁NO₂ Campd. formed by hydrogenation of a compd., m 36-7° 1237¹
 C₁₁H₂₁BiNO₂ Glucosamine, N - (a bromopropionyl)tetraacetyl-, 3968¹
 C₁₁H₂₁NO₂ Isopyrrole, 3 (3 5 dimethyl 4 propyl 2 pyrrolylmethylene) 4 ethyl 3 methyl, -HBr, 1257¹
 Isopyrrole, 4 - ethyl - 2 - (4 - ethyl - 3,5 - dimethyl 2 pyrrolylmethylene) 3 5 dimethyl, HBr, 3356¹
 —, 5 methyl 2 (5 methyl-3 propyl 2 pyrrolylmethylene) 3 propyl, HBr, 3010¹
 C₁₁H₂₁N₂O₂ Isopyrrole 4 ethyl 2 (3 ethyl 5 methoxy 4 methyl 2 pyrrolylmethylene) 3 5 dimethyl, 2433¹
 Ketone bis(ethylidimethyl 2 pyrrolyl), 3899¹
 — 4 ethyl 3,5 dimethyl 3 pyrrolylmethyl 3 4 5 trimethyl 2 pyrrolyl, 2009¹
 Lupinone 11 amino- Bi deriv., 3007¹
 C₁₁H₂₁N₂O₂ Apocynidine N acetyl, per chlorate 4003¹
 C₁₁H₂₁N₂O₂ Belarubic acid 4003¹
 Nucleonic 3 hydroxy 2 ketodihydro and salt 4275¹
 3 Pyrrolopropionic acid (ethyl 5 hydroxymethyl 2 pyrrolylmethyl)dimethyl 4008¹ 4009¹
 C₁₁H₂₁O₂ Cinnamic acid, α methylheptyl ester, 1231¹
 Methyl benzoate 3311¹
 C₁₁H₂₁O₂ Benzoic acid α -mercapto- methyl ester 4501¹
 C₁₁H₂₁O₂ Malonic acid methyl(α -methylphenethyl) di Et ester 1232¹
 Malonic acid 2 4 6 trimethylbenzyl di Et ester 5154¹
 4 Octanol 2 methyl acid phthalate 4545¹
 C₁₁H₂₁O₂ Benzoic acid α -sulfo- methyl ester and a salt 4501¹
 C₁₁H₂₁N₂O₂ Apocynidine carboxy, methyl ester 4002¹
 C₁₁H₂₁NO₂ Benzamide, N-3 methyl 1233¹
 C₁₁H₂₁NO₂ Cinnamic acid β (butylethylammonium) ethyl ester HCl P 5512¹
 Cyclohexanol 2 butyl carbamate, 1808¹
 C₁₁H₂₁NO₂ Novatropine 379¹
 C₁₁H₂₁NO₂ Camphorsulfonic acid toluene salt 3322¹
 C₁₁H₂₁NO₂ Glycine N (N phenylcarbamyl) leucyl ethyl ester 2742¹
 C₁₁H₂₁NO₂ Heptylammonium, picrate, 701¹
 Semicarbazone of aldehyde from carboxy apocynidine di HBr, 707¹
 C₁₁H₂₁BrO₂ 2 2 Indanacetone acid α - α' dibromohydrate, di-Et ester, 3334¹
 C₁₁H₂₁ClNO₂ β Chloroethyltrimethylammonium cinnamate P 2814¹
 1 Decanol 10-chloro-, carbamate, 5395¹
 C₁₁H₂₁NO₂ Indoliz, 5 β diethylammoniumethyl 3 ethyl 1 methyl, P 5250¹
 C₁₁H₂₁NO₂ Carbanilic acid β -acetamido-, ester with 2-octanol 5404¹
 C₁₁H₂₁NO₂ Ketone bis(ethylidimethyl 2 pyrrolyl) hydrazone, 5899¹
 C₁₁H₂₁NO₂ Pyrrolidine, 1 methyl 2,2 di propyl, picrate, 102¹
 C₁₁H₂₁NO₂ Xyleneol, heptyl-, acetate, 8294¹
 C₁₁H₂₁NO₂ Acetic acid (α -nonylphenoxy), 1229¹
 C₁₁H₂₁O₂ Toluene sulfonic acid methyl ester, 4549¹
 C₁₁H₂₁O₂ 1,1,4 Butenetricarboxylic acid, 2 (carboxymethyl), tetra Et ester, 5399¹
 C₁₁H₂₁BrO₂ 2,2 - Indanacetone acid, α bromohydrate, di-Et ester, 3334¹
 C₁₁H₂₁NO₂ 1 - Piperid methanol α butyl α - phenyl-, HCl 4276¹
 C₁₁H₂₁NO₂ Stemonidine, and HCl, 4551¹
 C₁₁H₂₁NO₂ Mefendecane, 1 phenyl-, 3469¹
 C₁₁H₂₁N₂O₂ Benzoic acid, α β bis(α - ethylpropyl)hydrazide, 2416¹

- C₁₇H₈N₂O₂ (See also Pantéze)
3 Pentanol 3 (diethylammonomethyl) ,
carbamate 4525²
- C₁₇H₈N₂O₂ (4 Ethyl - 2 hydroxyhexyl)
trimethylammonium picrate, 4525²
- C₁₇H₈O₂ Benzaldehyde, disoamyl acetal 1798²
- C₁₇H₈O₂ Compd m 137-8², from clove oil
anhydride and Et₃Ngl 3658²
- C₁₇H₈O₂ Clove oil, di Me ester 3658²
- 2 2 Iodanacetic acid hexahydro- di Et
ester 3333²
- C₁₇H₈O₂ 1 2 3 3 Pentanetetra-carboxylic acid,
tetra Et ester 1803²
- C₁₇H₈Br₂OP Phosphate diethyl 2 amyl -
dibromide 2853²
- C₁₇H₈NO₂ 9 Fluorylamine, dodecahydro-, ba
turate 511²
- C₁₇H₈N₂O₂ 2 Iodanacetic acid, 2 acetyl
hexahydro- Et ester semicarbazone,
3333²
- C₁₇H₈OP Phosphate, diethyl 2 amyl ,
and H₂C₆ compd 263²
- C₁₇H₈JP Dibutylmethyl 2 3 xylphosphor-
num iodide 2702²
- Dibutylmethyl 2 3 xylphosphonium
iodide 2702²
- C₁₇H₈JP Dibutylmethyl 2 3 xylphosphor-
num triiodide 2702²
- C₁₇H₈N₂O₂ Pyrimidine 5 sec butyl - 2,4,6
tripropyl 4229²
- C₁₇H₈N₂O₂ Camphorullone acid, Me ester,
hexamethylenetetramine compd 3222²
- C₁₇H₈O₂ See Sclerol
- C₁₇H₈O₂ Orthoacetab acid phenyl-, Et di Bu
ester 2133² Et diisobutyl ester, 2133²
- C₁₇H₈O₂ Maleic acid, diethyl-, monomethyl
ester 283²
- C₁₇H₈Br₂O₂ 1(1) Thiopentacetic acid, 1
bromo 2 3,4 3 tetrahydro 2 methyl -
methyl ester 3621²
- C₁₇H₈N₂O₂ Leucine N (sec-propyl) -, 2074²
- C₁₇H₈N₂O₂ 1 - Triazine hexahydro 1,3,5 -
tripropyl, urate 4523²
- C₁₇H₈Cl₂Hg₂N₂O₂ Malonamide, α,α bis(chloro-
mercuri) N, N' diethyl-, 1219²
- C₁₇H₈O₂ Butyric acid, α ethyl α-methoxy -
methyl ester, 289²
- Caproic acid, α-methoxy, 3 β methyl ester,
5672²
- Furazacetonol, tetrahydro-, laurate, P 3668²
- C₁₇H₈Br₂O₂ Lactic acid, α-bromo-, isomyl
ester 5663²
- C₁₇H₈O₂ 2-Heptadecanoic acid, 3073²
- C₁₇H₈O₂ Manganese acid, 5920²
- Palmitic acid Me ester, 277²
- C₁₇H₈O₂ 1,8,9,10-Phenanthrenetetracarboxylic
anhydride 3337²
- C₁₇H₈Cl₂O₂ 11-β-Benzoxanthene-carboxylic acid,
8,9,10-trichloro 12-keto -, 3987²
- C₁₇H₈Br₂O₂ 1 2 - Benzanthrene - 7,12 - di-one,
8,11-dibromo-, P 2159²
- C₁₇H₈Br₂Hg₂O₂ Ether, propargyl 2,4,6 - tri
bromophenyl lig deriv., 1613²
- C₁₇H₈Cl₂O₂ 1 2 - Benzanthrene 7 12 - di-one,
dichloro-, P 2153, P 1099², 4579²
- Naphthacenequinone, 1,4 - dichloro -,
5162²
- C₁₇H₈O₂ Benzol[1 2 - 5 4 - 8]anthrophen-
thene 6 12-dione, 5167²
- C₁₇H₈O₂ Benzol[1 2 - 5 4 - 8]anthrophen-
thene - 6,12 - dione, 3 - hydroxy -, 5167²
- C₁₇H₈O₂ Benzanthro[3,6 - γ]furan - 4,11 -
dicarboxylic acid, 1,3 - dihydro - 1,3 -
diketo- 2337²
- C₁₇H₈BrN₂ Acenaphthoquinoxaline, 8-bromo-,
1518², 2715²
- C₁₇H₈ClN₂ Acenaphthoquinoxaline, 8-chloro-,
2715²
- C₁₇H₈Cl₂O₂ 1,2 - Benzanthrene - 7,12 - di-one,
9-chloro-, 1242²
- Naphthacenequinone, 2-chloro-, 5162²
- C₁₇H₈Cl₂O₂ 1,2 - Benzanthrene - 7,12 - di-one,
chlorohydroxy -, 4575²
- Chloro deriv., m 165², nf compd m
198², 5118²
- Naphthacenequinone, 1 - chloro - 4 - hy-
droxy 5162²
- C₁₇H₈Cl₂O₂ 7 - meso - Benzanthrene - 5 - car-
boxylic acid, 9 chloro - 5 hydroxy - 7 -
keto-, P 823²
- 1,2 - Benzanthrene 7,12 - di-one, 9(or 10) -
chloro - 8,11 dihydroxy -, 4875²
- Naphthacenequinone, 2 - chloro - 1,4
dihydroxy -, 5163²
- C₁₇H₈Br₂O₂ Quinone, 2,5 - dibromo - 3,6 - di-
phenyl-, 3630²
- C₁₇H₈Br₂O₂ Furacop[3' 4',5 10]anthracene - 12-,
14 di-one, 5 10 - dibromo - 9,10,11,15 -
tetrahydro-, 3647²
- C₁₇H₈Br₂O₂ Benzene acid 5 - bromo - 2 - (5 -
bromo - 2 - hydroxy - 1 - naphthyl) -,
and Va tel, 1529²
- C₁₇H₈Br₂ Fulvene 1 2,8,4 - tetrabromo - 6,6 -
diphenyl-, 1238²
- C₁₇H₈Br₂Hg₂O₂ Ether, 2 4-dibromophenyl pro-
pargyl, lig deriv., 1315²
- C₁₇H₈Cl₂O₂ Benzene acid, 4,5-dichloro-2 naph-
thyl-, 4878²
- C₁₇H₈Cl₂N₂O₂ 1(2) - Naphthalene[Δ²:]
pseudodicyclopentadiene complex from SnCl₄, 103²
- C₁₇H₈O₂ Benzanthranediacid, 1518²
- Chrysenedione, 1518²
- Naphthacenequinone, 3,6,8,9, 5162²
- C₁₇H₈O₂ Benzoic acid, α - (2 - hydroxy - 1 -
naphthyl) -, lactone, 5418²
- 1,2 Chrysenedione, 8-hydroxy-, 1518²
- 4 - Chrysofluorene-carboxylic acid, 11 -
keto-, 4000²
- Compd., m 198², from 2 naphthol and
phthalic anhydride, 5418²
- Furacop[3,4' 5 10]anthracene - 12,14
di-one, 5 10-dihydro-, 3649²
- Naphthacenequinone, 1 hydroxy -, 5162²
- Fer[1 8]Phthalyl 2 naphthol, 4545²
- C₁₇H₈O₂ 2 - Thionaphthene-carboxylic acid,
1 - (1 - thionaphthene-carboxyl) -, 5167²
- C₁₇H₈O₂ 7 meso - Benzanthrene 5 carboxylic
acid, 8-hydroxy 7 keto-, P 823²
- 1,2 - Benzanthrene 7,12 - di-one, dihydroxy -,
3647², 3648², 4575²
- 11 - α - Benzoanthracene-carboxylic acid, 12 -
keto-, 3987²
- Naphthacenequinone, dihydroxy-, 3647²,
5163²
- C₁₇H₈O₂ 3,2 - α - Anthranthophene - 6,11
di-one, 1 hydroxy-, acetate, 2723²
- C₁₇H₈O₂ 1,5 - Anthracenedicarboxylic acid,
9 - hydroxy -, lactone, anhydride with
AcOH, 900²
- 1,2 Anthracenedicarboxylic anhydride, 10-
hydroxy (Ph) acetate, 900²
- 1,2 - Benzanthrene 7,12 - di-one, trihydroxy -,
4875²
- Naphthacenequinone, 1,2,4 - trihydroxy -,
5163²

- C₁₅H₁₀O₂ 1,4 - Anthracenedicarboxylic acid, 9,10 dihydroxy- γ , μ mo - γ lactone, acetal, 598¹
 Pseudoanthrhydroquinone - 1,2 dicarboxylic acid, lactone, acetal, 519²
 C₁₅H₁₀O₄ 1,8 9,10 Phenanthrenetetracarboxylic acid, and *Ca salt*, 533³^a
 C₁₅H₁₀BrN₂O Acenaphthenequinone, 3 bromo, phenylhydrazones, 1516⁴
 C₁₅H₁₀BrO₂ 7 - *meso* - Benzanthrenone, 2 bromo-3 methoxy, P 712⁵
 C₁₅H₁₀ClO₂ 7 *meso* - Benzanthrenone 2-chloro-3-methoxy, P 712⁵
 C₁₅H₁₀ClO₂ 8 Benzofluoranthene 6 11 dione chlorodimethyl, 516⁶^a
 C₁₅H₁₀ClO₂ 2 Naphthoic acid, 3 β chlorobenzoyl, 1242⁷, 516⁸
 C₁₅H₁₀ClO₂ Quinizarin, 5 - chloro, diacetate, 5648⁹
 C₁₅H₁₀N₂O Benzantridicarboxylic acid 29¹⁰
 1,2 - Benzanthrenone 7,12 dione 9 amino 1242¹¹
 Naphthalenequinone 2 amino-, 5162¹²
 Naphthalenedione, phenyl, 294¹³
 Pseudocatin, 1 (1 naphthyl), 294¹⁴
 C₁₅H₁₀NO₂ 5 8 Benzocinchoninic acid 3 (2 furyl), and *Ca salt*, 935¹⁵
 Naphthalenequinone, 1 amino-4 hydroxy 5162¹⁶
 Nordetamine, *N* benzoyl, 297¹⁷
 C₁₅H₁₀NO₂ Benzofluoranthene 6 11 dione, 3-acetamido-, 5167¹⁸
 C₁₅H₁₀NO₂ 7 - *meso* Benzanthrenone 3 methoxy - 2 - *micro* - P 712¹⁹
 Indeno[3,2-*g*]quinoline 1,2 7 8 bis-(methylenedioxy), 1263²⁰
 C₁₅H₁₀NO₂ 3 Acetic acid, (1 cyano 2 anthraquinonylmercapto) Me ester 2723²¹
 C₁₅H₁₀NO₂ 1 Indanone 4,5 methylenedioxy 2 - (6 - nitrophenyloxy)di-, 1253²²
 C₁₅H₁₀N₂O₂ Nicotinosin, 1,2 dihydro 2 keto - 6 - (β nitrophenyl) 4 phenoxy, 2145²³
 C₁₅H₁₀N₂O₂ 2 Naphthol, 1 perylmersapto, acetate, 3331²⁴
 C₁₅H₁₀NaO₂ Sodium deriv from compd w 198²⁵ and NaOH, 5418²⁶
 C₁₅H₁₂ Chrysene, 520²⁷
 C₁₅H₁₂BrO₂ 1 + 8H₂O, 3926²⁸
 C₁₅H₁₂BrO₂ 2 Hydroquinone, 2,6 - dibromo 3 6-diphenyl 3635²⁹
 C₁₅H₁₂BrO₂ 2 - Thiophenacetic acid, 3 5(7) dibromo- α , β diphenyl, 2143³⁰
 C₁₅H₁₂ClNO₂ Oxamyl chloride, *N* naphthyl *N* phenyl 294³¹
 C₁₅H₁₂ClN₂O₂ 3 - Phenylethylenediamine, *N* - (4 - chloro 2 - nitrophenylmercapto) - *N'* (4 chloro 2 nitrophenylsulfonyl) 259³²
 C₁₅H₁₂ClN₂O₂ 3a Benzenesulfonamide, *N*, *N'* - α (and β) - phenylamino(4 chloro 2 - nitro-, 259³³^a
 C₁₅H₁₂CoO₂ 1 + 8H₂O, 3926³⁴
 C₁₅H₁₂K₂O₂ 1 + 8H₂O, 3926³⁵
 C₁₅H₁₂K₂O₂ 1, 3926³⁶
 C₁₅H₁₂MgO₂ 1 + 8H₂O, 3926³⁷
 C₁₅H₁₂MnO₂ 1 + 8H₂O, 3926³⁸
 C₁₅H₁₂N₂ 3,3 Biquinoline, and salts, 5127³⁹
 C₁₅H₁₂N₂O Nicotinosin, 1,2 dihydro - 2 keto-4 6-diphenyl, 1528⁴⁰ 2145⁴¹
 Quinazoline, 4 (4 - hydroxynaphthyl), P 216⁴²
 C₁₅H₁₂N₂O₂ Naphthalenequinone 1,4 diamino, 5162⁴³
 C₁₅H₁₂N₂O₂ 3 1-bithamide, *N* [(2 phenoxy 4 thiazolyl)methyl] 602⁴⁴
 C₁₅H₁₂N₂O₂ Furo[3,4-*b*]pyridazine 1,4(2,3) dione 5,7 diphenyl 1820⁴⁵
 C₁₅H₁₂N₂O₂ 1 + 8H₂O 3926⁴⁶
 C₁₅H₁₂O 7 *meso* Benzanthrenone, methyl 512⁴⁷ P 1260⁴⁸
 5(12) Naphthaleneox 3648⁴⁹
 3 Naphthofuran 2 phanyl 4883⁵⁰
 C₁₅H₁₂O₂ 5(12) Naphthaleneox 12 hydroxy 3649⁵¹
 1 Naphthaldehyde 6 (6 formylphenyl) 4000⁵²
 On none 2 6-diphenyl 5408⁵³
 C₁₅H₁₂O₂ Furo[3,4-*a*]anthracene 12 14 dione 5 10 11 15 tetrahydro- 3540⁵⁴
 Naphthox acyl benzoyl, P 603⁵⁵ 1515⁵⁶ P 1654⁵⁷ 516⁵⁸
 C₁₅H₁₂O₂ Benzox acid, 0 (2 hydroxy 1 naphthoyl), 5418⁵⁹
 5(12) Naphthaleneox 1 6 12 trihydroxy 5162⁶⁰
 1 Naphthoic acid, 6 (6 carboxyphenyl) and *di K salt* 4000⁶¹, 4001⁶²
 Quinone 2 5 dihydroxy 3,6 diphenyl 3635⁶³
 C₁₅H₁₂O₂ Phenanthrenequinone 2,6-dihydroxy, diacetate, 1244⁶⁴
 C₁₅H₁₂O₂ 1 3926⁶⁵
 C₁₅H₁₂O₂ 2 Naphthoic acid 3 β sulfo-benzoyl 5162⁶⁶
 C₁₅H₁₂O₂ 1 + 8H₂O, 3926⁶⁷
 C₁₅H₁₂O₂ 1 Thiophenecarboxylic acid, 4 chloro 6 methyl 2 β tolyl 5162⁶⁸
 C₁₅H₁₂ChN₂O₂ Phthalazine 4 acetic acid, 1 hydroxy 3 (2 6 dichloro 4' nitro phenyl) 1 3 dihydro Ac deriv, 42⁶⁹
 C₁₅H₁₂N₂ 3 4 Benzantridione, 12 methyl "04"
 C₁₅H₁₂N₂O Benzocarbazole, 11 aryl, 2722⁷⁰
 Fluoranthene, 3-acetamido-, 5163⁷¹
 C₁₅H₁₂NO₂ Ketone, 8 hydroxy 5 - quinoyl methyl benzoate, 2723⁷²
 Quindole[2,1-*b*]phthalide, 1-ethyl, 294⁷³
 Phenol, 4 nitro 2,6 diphenyl, 5409⁷⁴
 C₁₅H₁₂NO₂ Benzoic 1 (β nitrophenoyl) 4 phenoxy, 1815⁷⁵
 5(4) Oxazolone 4 hydroxybenzal 2 phenyl, acetate, 1508⁷⁶
 —, 2 - phenyl 4 salicylal, acetate, 1508⁷⁷
 C₁₅H₁₂NO₂ 2 Thiophenecarboxylic acid, 1 [α (and β) - acetamidobenzoyl], 5167⁷⁸
 C₁₅H₁₂NO₂ 1 Indanacetic acid, 2,3 diketo-, 2-oxime, Br deriv, 5162⁷⁹
 C₁₅H₁₂NO₂ Pyrazole[3,4-*b*]pyridazine - 1,4 - dione, 2,3 dihydro 5 7 diphenyl, 1826⁸⁰
 C₁₅H₁₂NO₂ Butyrometris, α , β -diketo-, dioxime di Br deriv, 3622⁸¹
 C₁₅H₁₂NO₂ 3 Cinnamotolide, α cyano 4,5 - methylenedioxy 2 nitro, 1253⁸²
 C₁₅H₁₂NO₂ Acenaphthene, picrate, 1816⁸³
 C₁₅H₁₂NO₂ Harman, picrate, 301⁸⁴
 C₁₅H₁₂ Benzoic, α -diphenyl, 1717⁸⁵
 Fulvene, 6,6 diphenyl, 1237⁸⁶
 Phenanthrene, 2 - $\Delta^{1,2}$ butadienyl - (?), 291⁸⁷
 —, 2 - α - methylenenyl (?) , 291⁸⁸

- C₁₂H₁₄AsN Phenarsazone, 1,6 dihydro 1 phenyl 1831¹
- C₁₂H₁₄AsNO Phenarsazone 1,6 dihydro 1 phenyl, 1-oxide 1831¹
- C₁₂H₁₄AsN₂O₂S₂ Benzamidoazole, 5,5' arseno-
bis[2 (carboxymethylmercapto)], and
HCl 703¹
- C₁₂H₁₄BrBrO₂S Thioazanthione 4 bromo 1
hydroxy 2 methoxy diacetoborate,
2725¹
- C₁₂H₁₄Br₂O₂S Spiro[cyclohexane-1,9' xanthene]
3,4,5,6 tetrol, di Br deriv, 3644¹
- C₁₂H₁₄BrNO₂S Benzenesulfonamide, *p*-(*p*-
bromophenoxy), 1816¹
- C₁₂H₁₄BrN₂O₂S Triazene 1 (*p* bromophenyl)
3,3-diphenyl, 1-oxide 2126¹
- C₁₂H₁₄BrClNO₂ Quinolone, 3 (6-bromo-
veratryl)-4-chloro- bromo deriv, 109¹
- C₁₂H₁₄ClNO₂ Cinchophen *β*-chloroethyl ester,
4883¹
- C₁₂H₁₄Cl₂N₂ Quinolone deriv, m 174° from
α,3 dichloro *p* acetotoluide, 2430¹
- C₁₂H₁₄Cl₂O₂ Anisoyl chloride 3,3' (*β*,*β*-
dichloroethylidene)bis-, 3412¹
- C₁₂H₁₄CuN₂S₂ 2,3 Triazene-mercaptan 4
amino 8 phenyl, Cu deriv, 1531¹
- C₁₂H₁₄K₂O₂ Spiro[cyclohexane-1,9' xan-
thene] 3,4,5,6 tetrol, tetra K
deriv 3644¹
- C₁₂H₁₄N₂ Carbazole 1 subpo-(?) P 710¹
- O₂(C₁₂H₁₄N₂O₂) Isocyanic acid, 6 ethoxy 2 phenyl
4-quinolyl ester 453¹
- Isomd golin 1 1-dimethyl, 294¹
- 1 Naphthaldehyde 6 (o formylphenyl),
dioxime 4000¹
- Naphthol, phenylazo, acetate 1151¹
- 2,6-Piperazinedione, 2,6-dibenzal, 1505¹
- C₁₂H₁₄N₂O₂ Furazone, 3,4 di *p* tolyl, 3338¹
- Glycone (2 phenyl) 4 quinolylcarbamyl)
3000¹
- C₁₂H₁₄N₂O₂ Benzanide, N - (2 hydroxy 1
naphthyl) - V methyl *p* niro
2994¹
- C₁₂H₁₄N₂O₂ Cinchoninyl amide, 6 ethoxy 2
phenyl, 4884¹
- Triazene, 3 (1 acenaphthenyl) 1 (*p*
naphthophenyl), 3989¹
- C₁₂H₁₄N₂O₂ Pyridoxal 4,5 - *γ* *γ* phthalazine
1,4,6 9(2,3,7,8) tetrone, 2 3 7 8
tetraacetyl, 1821¹
- C₁₂H₁₄N₂O₂S 1 Picrylpyridinium *p* toluene
sulfonate, 2727¹
- C₁₂H₁₄O ketone 4 methyl 1 naphthyl
phenyl P 1684¹
- α Naphthalenol, 5,12 dihydro 3649¹
- Phenol 3,5-diphenyl, 3327¹
- C₁₂H₁₄O₂ ketone 3 - hydroxy 2 naphthyl
tolyl P 5570¹
- 2 Naphthol 8-methyl, benzoate 1743¹
- 1,2-Pyrone, 4 phenyl-6 *p*-tolyl, 2145¹
- C₁₂H₁₄O₂S 2 Thiophenecarboxylic acid α α - d
phenyl, and Ag salt, 2143¹
- C₁₂H₁₄O₂ Glycolic acid, 1 naphthylphenyl
2994¹
- ketone anisyl 3 hydroxy 2 naphthyl P
55 *β*
- Phenol *p*-(*p* phenoxyphenoxy), 1816¹
- α Toluic acid α - (2 hydroxy 1 naph-
thyl), 5415¹
- C₁₂H₁₄O₂ Flthano[5,10]anthracene 11,12
dicarboxylic acid, 3,10-dihydro-, 3540¹
- Flavone, 1 hydroxy - 3 methyl-, acetate,
4231¹
- 17 Phenanthrenedicarboxylic acid, di Me
ester, 2130¹
- Phenol, *p*-(*p*-phenylenedioxy)bis-, 1816¹
- C₁₂H₁₄O₂S 2 - Thiophenecarboxylic acid,
1 benzoyl-5-ethoxy, 3165¹
- C₁₂H₁₄O₂ Phthalic acid, 3 phthalidyl, d Me
ester, 5418¹
- C₁₂H₁₄O₂ Arsenic triphenyl-, 5630¹
- C₁₂H₁₄BrN₂ 1173¹
- C₁₂H₁₄BO₂S Thioazanthione, 1 hydroxy 4
methyl, diacetoborate, 2724¹
- C₁₂H₁₄Br Brsmuthine, triphenyl, 5630¹
- C₁₂H₁₄BrClNO₂ Quinolone 3 (6 bromover-
atryl)-4-chloro-, 106¹
- C₁₂H₁₄Br₂N₂O₂ Phthalazine 4 acetic acid
1 hydroxy 3 (2',6' dibromo - 4'
nitrophenyl) 1,3 dihydro, Et ester,
4273¹
- C₁₂H₁₄ClN₂O₂ Phenol *p* - 1 naphthylazo,
compd with AcCl, 3322¹
- C₁₂H₁₄ClO₂ Anisic acid, 2,3' - (chlorovinyl-
ene)bis-, 5412¹
- C₁₂H₁₄Cl₂N₂O₂ Phthalazine 4 acetic acid, 1 -
hydroxy 3 (2,6' - dichloro 4' nitro-
phenoxy) 1,3 - dihydro, Et ester, 4273¹
- C₁₂H₁₄KO₂ Potassium acetylacetylloxonium
acetylacetylolate, 3774¹
- C₁₂H₁₄N Triphenylamine, 2718¹, 5830¹
- C₁₂H₁₄N (See also Tropaeol)
α Benzoiccarbazole, 1 - acetyl 5,6 - di
hydro-, 1523¹
- 2 Pyridoxal 4 phenyl 5 *p* tolyl, 2145¹
- 2(1) Pyridone, phenyl *p*-tolyl, 1028¹, 1029¹
- C₁₂H₁₄NO₂ Acetamide = 1 (and 2) naphthoxy-,
3339¹
- Anisole, *p*-(*p* phenoxyphenoxy) 1816¹
- Cinchophen, 6,8-dimethyl-, P 5613¹
- Indenoquinoline, dimethoxy, 106¹ - HCl,
1203¹
- 6 - Isodanof[2 3 *γ*]quinoline, 9 10 - di
methoxy 1061¹
- C₁₂H₁₄NO₂S Fluoranthenesulfonamide V
ethyl, 3163¹
- 2 - Thiazolecarbinol, α methyl 4 phenyl,
benzoate, 2722¹
- C₁₂H₁₄NO₂ Acetic acid, [*p* (2 naphthylamino)
phenoxy], P 1684¹
- Acrylonitrile *β* (1 hydroxy - α anisyl)
- phenyl, acetate 2710¹
- α 6 - Benzocyclohexanone acid, 3 (2 furyl)
1,2,3,4-tetrahydro-, 855¹
- Cinchophen, 6 ethoxy, 4884¹
- 6-hydroxy-, Et ester, 4833¹
- Glutacouamide, *β* *p*-anisyl V phenyl, 4820¹
- C₁₂H₁₄NO₂S Benzenesulfonamide *p* phenoxy,
1816¹
- C₁₂H₁₄NO₂ Cinchophen, 2,6-dihydroxy, Et
ester, 700¹
- C₁₂H₁₄NO₂ Acetic acid (1 amino - 2 anthra-
quinonylmercapto), Et ester, 2723¹
- C₁₂H₁₄NO₂ 1 Indanone 4,5-dimethoxy 2
(*o*-nitrobenzyl), 1253¹
- 1 Indanone, 2 (*o*-nitroveratral), 1253¹
- Makmasulic acid, α-methyl-α piperonyl
der., 5671¹
- 3 - Quinoketocarboxylic acid, 2 - *p* anisyl
1,4 - dihydro 4 - keto - 6 methoxy
1830¹
- C₁₂H₁₄N₂O₂ 2 - Fyrrolealdehyde, 1 benzoyl
phenylhydrazonate, 2997¹
- Triazene, 1,3,3 triphenyl, 1 oxide, 2126¹
- C₁₂H₁₄N₂O₂ Cinchoninamide, N - (carbamyl
methyl) 2 phenyl, 3000¹

- Croconic acid, 6-hydroxy, α methyl
beatalhydrazide, 954⁴
- 3-Quinoxalinecarboxylic acid, 2-amino-6,7-di-
methoxy, 1253³
- C₁₈H₁₅N₃O₂ Urea, (6-methoxy-2-phenyl
4-quinolylcarbonyl), 4883³
- C₁₈H₁₅N₃O₂ 1-Naphthylamine, 2,4-dinitro
N-phenethyl, 5403³
- C₁₈H₁₅N₃O₂ Cinnamamide, α cyano 4,6
dimethoxy 2-nitro, 1253³
- C₁₈H₁₅N₃O₂ Benzoyl- β -indole 7(8)
carboxylic acid, 9,10-dihydrobenzo-
Et ester, 1523³
- C₁₈H₁₅N₃O₂ Naphthalene, dimethyl, picrate
1816³
- Naphthalene ethyl, picrate 914³ 1815³
4544⁴
- C₁₈H₁₅N₃ Triazene 1-phenyl 3 (phenylazo
phenyl), 1226³
- C₁₈H₁₅O₂F Phenyl phosphite 1623³, 3625³
- C₁₈H₁₅F₃ Phosphite, triphenyl, 5830³
- C₁₈H₁₅Br₂ Subine, triphenyl, 5830³
- C₁₈H₁₅ Dundene, 3988³
- 1,3,5-Hexatriene, 1,6-diphenyl, 1719³
- C₁₈H₁₅AsN₃O₂ 2(1) Pyridone, 3-bis(phenyl
mercapto)aryl 1-methyl-, 4265³
- C₁₈H₁₅AsN₃O₂ Benzene-sulfonic acid, β
(4,6-dihydroxy m-phenylthioacetate)bis-
927³
- C₁₈H₁₅AsN₃O₂ Benzimidazole, 3,3-arsenobis
12 (carbamylmethylmercapto), 103³
- C₁₈H₁₅AsN₃O₂ Spure(cyclohexane 1,9-
canthene) 3',8'-diol, Ba deriv, 3644³
- C₁₈H₁₅BrN₃O₂ 4-Quinolone, 3-(6-bromo
varatyl), 104³
- C₁₈H₁₅BrN₃O₂ 2-Acetoxyphenylsulfonic acid
bromo, PhNH₂ salt 1515³
- C₁₈H₁₅BrN₃O₂ Oxadole, 5,7-dibromo 2- β -
dimethylaminobenzal 1-methyl-
203³
- C₁₈H₁₅BrN₃O₂ Spiro(cyclohexane 1,8-xanthene)
3',6'-diol, dibromo deriv, 3644³
- C₁₈H₁₅ClN₃O₂ Quinolone, 4-chloro 3-varatyl
106³
- C₁₈H₁₅ClN₃O₂ Adipyl chloride, β -7-diphenyl, 98³
- C₁₈H₁₅ClN₃O₂ Acetoacetic acid, α -7-bis(β -chloro-
phenyl), Et ester, 2987³
- C₁₈H₁₅ClN₃O₂ Amine acid, 2,3-(β , β -dichloro-
ethylidene)bis-, 5412³
- C₁₈H₁₅ 2,4-Hexadiene, 3,4-diene 2,6-
diphenyl, 2713³
- C₁₈H₁₅K₂O₂ Spiro(cyclohexane 1,9'-xan-
thene) 3',6'-diol, di K deriv, 3644³
- C₁₈H₁₅N₃ 1-Cyclopentyl-2-quinoline 9-amine
2,3-dihydro-, and HCl, 2345³
- C₁₈H₁₅N₃O₂ Benzocyclobutene, 1-acetyl 5,6-
dihydro-, oxime 1523³
- Isodolonephthalimide, hexahydro,
701³
- 1,4-Naphthoquinone, 2,5-dimethyl,
phenylhydrazide, 663³
- C₁₈H₁₅N₃O₂ Croconic acid, N- β -hydroxy
ethyl-2-phenyl, 4883³
- β -Cinnamotofide, α cyano m-methoxy,
1253³
- α -Phenylenediamine, 4-(β -phenoxy
phenoxy), 1816³
- 3,5-Pyrazolone 4-isopropylidene 1,2-
diphenyl, 2145³
- C₁₈H₁₅N₃O₂ Cinnamamide, α -cyano-3,4-
dimethoxy, 1253³
- 4-Quinolonecarboxylic acid, 6-hydroxy-2-
phenyl, Et ester, 4884³
- C₁₈H₁₅N₃O₂ Benzoyl-cyclooctyl[β -indole 7(8)
carboxylic acid, 9,10-dihydro 5(?)
nitro-, Et ester, 1523³
- Glyoxime, dimethyl-, di Ba deriv, 80³
- , diphenyl-, diacetyl deriv, 4767³
- C₁₈H₁₅N₃O₂ α -Naphthol orange, dimethyl
2994³
- α -Naphthol orange ethyl, 2993³
- 2-Naphthol 2-sulfonic acid, 1-xylylazo
Na salt 2139³
- C₁₈H₁₅N₃O₂ Nicotinic acid, 2-(2,5-dimethoxy
4-nitrophenyl) 3-nitro- 4519³
- C₁₈H₁₅N₃O₂ Benzenesulfonic acid 2-(7-
dimethylamino 1-naphthylazo) - 5
nitro Na salt 4543³
- Benzenesulfonic acid, β -(β -nitrophenyl
azo), PhNH₂ salt 257³
- C₁₈H₁₅N₃O₂ Quinolone 2-propyl picrate 1829³
- C₁₈H₁₅N₃ m-Phenylenediamine 4,6-bis(phenyl
azo) 3243³
- C₁₈H₁₅N₃O₂ Cystine, N-N-bis(2,4-dinitro
phenyl)-, 491³
- C₁₈H₁₅O₂ Ether, benzyl 1-naphthylmethyl, P
1841³
- C₁₈H₁₅O₂ Salicyl triphenyl 4535³
- C₁₈H₁₅O₂ 8-Anthracene dimethyl acetate 2994³
3646³ 4547³
- Elbaso[5,10]anthracene 11 carboxylic
acid 4,10-dihydro 12 methyl
3646³
- C₁₈H₁₅O₂ γ -Pentenoic acid α -benzyl β -
keto- β -phenyl 4530³
- Succinic anhydride α - β -dibenzyl, 2135³
- C₁₈H₁₅O₂ 9-Anthracene dimethoxy acetate
1516³ 4520³
- 4-Chromanone 8-varatyl 1534
Flavone, 3,7-dimethoxy 3-methyl
4250³
- Isobavone 4,7-dimethoxy 2-methyl
3227³
- C₁₈H₁₅O₂ 4-Chromanone 3-(3-hydroxy
amyl) 7-methoxy 1534³
- 4-Chromanone 7-hydroxy 3-varatyl
1534³
- Coumarin 3- β -amyl 5,7-dimethoxy
4541³
- Dimethyl ester, m 153-6³ of ketodibasic
acid m 304-5³ 3232³
- Phthalide 6-methoxy 2-varatyl, 3155³
- C₁₈H₁₅O₂ Retenequinonesulfonic acid, K salt
518³
- C₁₈H₁₅O₂ Anthraquinone 2,3,6,7-tetra-
methoxy, 934³ 4538³
- 4-Chromanone, 7,8-dihydroxy 3-vera-
tral, 1534³
- Phenanthroquinone tetramethoxy, 1241³
- Quinone-sulfonic acid dimethyl, 4551³
- C₁₈H₁₅O₂ 2,2,3-Bisphenyltricarboxylic acid
4-(ω -hydroxyisopropyl), 2136³
- C₁₈H₁₅AsN₃O₂ Arsenic acid, N (N 6-
methoxy 5-quinolylglycyl), nitroso
deriv, 3999³
- C₁₈H₁₅AsN₃O₂ Arsenic, triphenyl, dihydroxide,
1831³
- C₁₈H₁₅BrN₃O₂ Oxadole, 5-bromo-3- β -di-
methylaminobenzal-1-methyl, 293³
- C₁₈H₁₅BrN₃O₂ Phenethylamine, m-bromo-N
(3,4-dimethoxy 2-nitroxy)idene
4552³
- C₁₈H₁₅BrN₃O₂ Isoquinoline, 1-(bromomethyl)
2,4-dihydro 6,7-dimethoxy, picrate,
1530³
- C₁₈H₁₅BrN₃O₂ 1-Phthalimidecarboxylic acid, 2

- (4 amino 2,6 dibromophenyl) 1,2,3,4 tetrahydro 4 hydroxy, Ac deriv, 4273⁴
- C₁₈H₁₇Cl Retene chloro-, 513²
- C₁₈H₁₇ClN₂O Indole, 1 m chlorobenzoyl - 3 (β methylaminoethyl), 3002²
- C₁₈H₁₇ClN₂O Isoquinoline 1 (chloromethyl) - 3,4 dihydro 6,7 dimethoxy, picrate, 1530²
- C₁₈H₁₇ClO₃ Retcoesulonylchloride 513²
- C₁₈H₁₇Cl₂N₂O₂ 1 Phthalazonesulfonic acid, 2 (4 amino 2,6 dichlorophenyl) 1,2,3,4-tetrahydro-4-hydroxy, Ac deriv 4273⁴
- C₁₈H₁₇Cl₂N₂ Comp m 272², from α-chloro-β acetotoluene 2430²
- C₁₈H₁₇IN₂O₃ 5 Methoxy 2 methyl 1 [(2 methyl 1(2) benzothiazolylidene) methyl]benzothiazolium iodide 5170²
- C₁₈H₁₇IO Furan 2,5 dihydro 3 oxo 2,5 dimethyl 2,5-diphenyl 2713²
- C₁₈H₁₇NO α Benzocarbazole, 11 acetyl 5,6 Ga 11a tetrahydro- 5674²
- Fluoranthene, 3 acetamidotetrahydro, 5163
- Naphthylamine N β methoxybenzyl, 1817²
- C₁₈H₁₇NO₂ Benzocyclopent[3]indole 7(8) carboxylic acid, 9,10 dihydro γ Et ester, 1522²
- C₁₈H₁₇NO₂ Chalcoone, 4' methoxy, oxime Ac deriv 1819²
- Chalcoone 2,4,6' trimethyl - 3 - nitro γ, 3642²
- Cinnamic acid, α - benzamide γ, Et ester, 2143²
- Fukatsone, 3654²
- 4-Quinolol 3 veratryl, 106²
- 4(1) Quinolone, 2,3 dihydro 3 veratral 106²
- C₁₈H₁₇NO₃ 1 - Acenaphthensulfonic acid, PhNH₂ salt, 5419²
- C₁₈H₁₇NO₃ 1 Butanol, 2 - benzal, β nitro benzoate, 2108²
- Glutaconamic acid, β β amyl-, 4852²
- Laurepukone, 3634², 3654²
- Malonamic acid, α - acetal β methyl, 3671²
- C₁₈H₁₇NO₃ Malonamic acid, α-methyl-α peroxyl-, 5671²
- Malonamic acid α-veratral-, and Ag salt, 5671²
- C₁₈H₁₇NO₃ 2 - Anthraquinonesulfonic acid, dimethylamino-, and Na salt, 5429²
- C₁₈H₁₇NO₃ o - Telueneulfonic acid α (4 hydroxy - 3 - quacetyl) 4,5-dimethoxy, 106²
- C₁₈H₁₇NO₃ Mecouan, 2 - (2,3 - dimethoxy - 4 naphthophenyl), 4519²
- Mecouan 2 - (2, - 5 dimethoxyphenyl) 3 nitro-, 4519²
- C₁₈H₁₇NO₃ 1,7 - Anthraquinonesulfonic acid, 4-dimethylamino-, 5429²
- C₁₈H₁₇N₂ Pyrazole, 4 benzalmino 3,3 di methyl 1 phenyl, 4527²
- Quinaldine, α - (β dimethylaminoophenyl- amino), 4623²
- Quinaldine, 6 (β dimethylamino benzal amino), 4623²
- C₁₈H₁₇N₂O Pyrazole, 4 benzamide 3,3 di methyl-1 phenyl, 1,43²
- C₁₈H₁₇N₂O₂ 3 1 Isothiodiazane, 2 - amino 5-β tolyl Ac deriv, 1532²
- C₁₈H₁₇N₂O₂ Cinchophen, 6 - ethoxy γ, hydrate, 4884²
- C₁₈H₁₇N₂O₂ Indole, 3 - (β - methylaminoethyl) - 1 β nitrobenzoyl, 3002²
- C₁₈H₁₇N₂O₂ 3 Benzenesulfonic acid, β (4 - di methylamino - 1 - naphthylazo) γ, Na salt, 4544²
- Benzenesulfonic acid, β-phenylazo-, PhNH₂ salt, 287²
- C₁₈H₁₇N₂O₂ 2,9 - Pyridindole, 1,2,3,4 tetra hydro-6-methoxy, and picrate, 301²
- C₁₈H₁₇1,5-Hexadiene, 1,6-diphenyl, 1799²
- C₁₈H₁₇AsN₂O₂ Arsanilic acid, N - (N - 2 - methyl 6-quacetylglucyl)-, 3999²
- C₁₈H₁₇AsN₂O₂ Arsanilic acid, N - (N - 6 - methoxy 5 quacetylglucyl)-, 3999²
- C₁₈H₁₇BrN₂O Oxindole, 5 - bromo - 3 (β dimethylaminoophenylamino) - 1 - ethyl, 203²
- C₁₈H₁₇BrN₂S Benzo 1,3,6 - thiazazepine, 4 - (allylamino) - 2 (bromomethyl) - 1,2 dihydro 2 - phenyl-, 4266²
- C₁₈H₁₇ClN₂ Quinaldine, 4 - amino - 3 chloro α-dimethylamino-, 2430²
- C₁₈H₁₇ClN₂O₂ Ansamide, 3,3' (β,β-dihydro ethylenedioxy)bis-, 5412²
- C₁₈H₁₇CuO₂ Piccol, Cu salt, 2131²
- C₁₈H₁₇N₂ Quacolon, 4 amino 2 - ethyl - 3 methyl, and HCl, 2430²
- C₁₈H₁₇N₂O Indole, 3 (β - benzamidoethyl) - 1 - methyl, 3002²
- Indole, 1 benzoyl - 3 (β methylaminoethyl), 3002²
- C₁₈H₁₇N₂O₂ 3-Acridinecarbamide acid, Bu ester, 4271²
- Cinnamaldehyde, α ethyl - 3,4 - methyleoxy-, phenylhydrazones, 1230²
- Cyclohexanecarboxylic acid, 2 (2 naphth imidazolyl), 701²
- Phthalimide, N - [2(or 1) - amino - 1(or 2) naphthyl]hexahydro-, 701²
- 1 Propanol, 3 - (3 indyl) γ, carbamate, 614²
- C₁₈H₁₇O₂ 2(1) - Thionaphthene, 1 - (β dimethylaminoophenylamino) - 5 ethoxy γ, 5163²
- C₁₈H₁₇N₂O₂ Phthalimide, N - [8 - hydroxy γ - (N methylamino)propyl]-, F 1336²
- C₁₈H₁₇N₂O₂ Sulfamic acid, N phenyl, aniline salt, 1503²
- C₁₈H₁₇N₂O₂ Anthranilic acid, N isobutyl 5-nitro-, benzyl ester, 4244²
- C₁₈H₁₇N₂O₂ Oxamide, p,p'-disulfamide-, 1504²
- C₁₈H₁₇N₂O₂ 2 Naphthylamine, 3,4 dihydro - N N-dimethyl, picrate, 2139²
- C₁₈H₁₇N₂O₂ 1 Butanol, 4-(3-indyl), picrate 5144²
- C₁₈H₁₇N₂ 2(3) - Thiazolone, 4 β - tolyl γ, 4 ethylthiosemicarbazone 1832²
- C₁₈H₁₇N₂ Quinocedumant, N, N' - bis(2,5 diamino)phenyl-, 926²
- C₁₈H₁₇N₂O Acetyl deriv α m 2105², of tempd m 208², 5428²
- C₁₈H₁₇N₂O Piccol, Ni salt, 2131²
- C₁₈H₁₇O Chalcoone, β-ethyl-α methyl, 3313²
- Δ³-3-Hexenone, 1,6 diphenyl, 4550²
- Δ³ 2 - Pentenone, 4 - methyl - 1,5 - di phenyl-, 3313²
- Retenol, 513²
- C₁₈H₁₇O₂ Δ³ 3 Hexenone, 6 - phenyl - 1 acetyl-, 4550²
- 3 Hexene - 2,6 diol, 2,5 - diphenyl, 2713²

- C₁₅H₁₀O₃ Aretophenone, α - α' - thioesip methyl-, 4879¹
- C₁₅H₁₀O₃ Acetoacetic acid, α , γ -diphenyl, Et ester, 298¹
- Spun(cyclohexane - 1,9' - xanthene] 3',8' diol, 3644¹
- Valerophenone, β -hydroxy-, benzoate, 1225¹
- C₁₅H₁₀O₃ Retenesulfonic acid, and salts, 1134¹
- C₁₅H₁₀O₃ Adipic acid, β , γ -diphenyl, 68¹
- Isochavibetol, methoxy-, benzoate, 4866¹
- Isoeuganol, methoxy-, benzoate, 4866¹
- Phenol, 2 (methoxymethoxy)propenyl-, benzoate, 5409¹
- Succinic acid, α , β -dibenzyl, 2135¹
- C₁₅H₁₀O₃ Aobidrophylodulcose acid, dimethyl-, 3979¹
- 1,9,10 Anthracinol, 5,6,7,8 tetrahydro-, diacetate, 3993¹
- Anthracene, 2,3,5,7 tetramethoxy-, 934¹
- Benzoic acid, 2 - (3,4 dimethoxyphenyl) 3 methoxy-, 8155¹
- 4 Chromanone, 3 - (3 hydroxy 4 - methoxybenzyl) 7 methoxy 1534¹
- Isoeugenol, 3 (3,4 - dimethoxyphenyl) 3 4 dihydro-8-methoxy-, 8155¹
- Isoptthalic acid, 4 - methoxy 6 methyl 2 phenyl, mono Et ester, 3327¹
- Phthalide, 6 methoxy 2 veratryl-, 5154¹
- Phylodulcin, di Me ether, 3979¹
- Propiophenone, 4 hydroxy 2,6-dimethoxy-, benzoate, 4250¹
- Spiro(cyclohexane 1,9' xanthene] 3,4', 6',6' istrol, 3644¹
- C₁₅H₁₀O₃ 2 Anthracenesulfonic acid, 9,10-dithioxy-, 3420¹
- C₁₅H₁₀O₃ β , β Euphenol, bis(ethylcarbonate), 4253¹
- 5,5 Biveratraldehyde 1499¹
- 4 Chromanone, 7,8-dihydroxy 2 veratryl-, 1534¹
- Dehydrophyllodulcose acid, dimethyl 3979¹
- m Meconic 2 - (3,4 dimethoxyphenyl), 934¹
- C₁₅H₁₀O₃ Compd, m 185-7°, from reaction of maleic anhydride with m C₁₅H₁₀(OMe)₂ in the presence of AlCl₃ 4866¹
- Flavanone, 5,7 dihydroxy 3,4,6 trimethoxy-, 3979¹
- Veratric acid, 6-veratryl-, 4538¹ and salts, 934¹
- C₁₅H₁₀BrN₂O₃ Homoveratramide N (m bromophenethyl) 2 nitr, 4862¹
- C₁₅H₁₀Cl₂N₂O₃ Hydroquinone, bis(chloroacetate) compd with N,N-dimethylammonia, 1814¹
- C₁₅H₁₀IN₂O₃ α -(1 Ethyl 2(1) pyridylidene) 1 methylquinazolinum iodide, 4269¹
- C₁₅H₁₀NO Quinoline, 1 benzoyl 1,2,3,4 tetrahydro 2,4 dimethyl, 76¹
- C₁₅H₁₀NO₂ Acrylic acid, β - ethylammonio α β diphenyl-, Me ester, 614¹
- 1 Butanol, 2 benzal, carbamate, 2788¹
- C₁₅H₁₀NO₃ Retenesulfonic acid, 513¹
- C₁₅H₁₀NO₃ Butyramide, o - hydroxy, α tolate, 1818¹
- 6 - Dibenzol(h, i)quinolin - 2 - ol 4,5,6a,7 tetrahydro - 10,11 - dimethoxy, and HCl, 4552¹
- Isoquinoline, 1 - β - amyl - 3,4 - dihydro - 6 7-dimethoxy-, 5676¹
- Morphothecane, HCl, 3904¹
- α Toluamide, o' hydroxy, butyrate, 1818¹
- C₁₅H₁₀NO₃ 9,10 Anthracinol, 6 amino-1,2,3,4 tetrahydro-, diacetate 3993¹
- Phenethylamine 3 4 dimethoxy N pteronyldiene 3632¹
- C₁₅H₁₀NO₃ Malonamic acid, α veratryl 5671¹
- C₁₅H₁₀NO₃ Dehydrophyllodulcine acid, di methyl nitr 3979¹
- C₁₅H₁₀NO₃ Nitro deriv m 159¹, of acid m 202¹ 1499¹
- C₁₅H₁₀N₂ Pyrazole 5 - (β dimethylammonio phenyl) 3 methyl 1 phenyl 1508¹
- C₁₅H₁₀N₂O Oxamide 3 (β dimethylammonio phenylamino) 1-ethyl-, 293¹
- Δ 3 Pentanone 1,5 diphenyl, semi carbazone 45,60¹
- C₁₅H₁₀NO₃ 1,3 Butanedione 1 phenyl thio-4 p tolylsulfoncarbazon 1225¹
- C₁₅H₁₀N₂O₃ Compd m 141° from dehydro-muonocyclopentadienequinone and 1b C₁₅H₁₀ 1507¹
- Centonophenone β methoxy (?) 4 phenylsemicarbazone 2132¹
- Isoeugenophenone β methoxy (?) 4-phenylsemicarbazone 2132¹
- 1,2 Propanedione, 1 o tolyl 2 oxime 1 phenylhydrazine Ac deriv, 1827¹
- C₁₅H₁₀N₂O₃ Pyridine 3 (1 allyl 2 pyrrolidyl) perate 300¹
- C₁₅H₁₀ Isolan 1,1,3 trimethyl 3 phenyl 4210¹
- 2 Fentone 4 methyl 2 4 diphenyl, 4239¹
- C₁₅H₁₀N₂O₃ Acetophenone 3,3' artemis-16 hydroxy butansemicarbazone, F 964¹
- C₁₅H₁₀BrN₂O₃ Codeinone 1 bromodihydro 9,9¹
- Metacodeinone 1 bromodihydro, 9,9¹
- C₁₅H₁₀BrN₂O₃ Codeinone, 1 bromodihydro-hydroxy-, 9,9¹
- C₁₅H₁₀BrN₂At 2 Butenone 3 bromo-4 (β dimethylammoniophenyl), phenyl hydrazine 1508¹
- C₁₅H₁₀BrN₂O 2,5 Hexanedione 3 hydroxy bis(β bromophenylhydrazine) 494¹
- C₁₅H₁₀ClN₂O₃ Codeine chloro- and salts 3655¹
- C₁₅H₁₀INO₃ Codeine indo- and HCl 3655¹
- C₁₅H₁₀N₂NO₃ Phenol (α immoethyl)methoxy N salt, 2131¹
- C₁₅H₁₀N₂O Quinone, 1,2,3,4 tetrahydrodi methyl 1 phenylcarbamyl, 705¹
- C₁₅H₁₀N₂O₃ 2,8 Hexanedione, 6 - phenoxy 3-phenylhydrazine 4580¹
- Hydrazine, dibenzoyl sec butyl, 2416¹
- Oxamide, N,N diphenethyl 5409¹
- Oxamide, N,N -diethyl, 294¹
- C₁₅H₁₀N₂O₃ Benzox acid, 5 amino 2 iso butyrylammonio, benzyl ester HCl 4245¹
- β Crotonamide, β (β methoxyamino), 3128¹
- Hydroxamic acid, β - methoxy, ammal hydrazide, 3403¹
- C₁₅H₁₀N₂O₃ Ethanol, 2 methylphenethylammonio, β nitrobenzoate, HCl, 2709¹
- 1 - Propanol, 3 benzylmethylammonio β nitrobenzoate, HCl, 2709¹
- C₁₅H₁₀N₂O₃ Ethanol, 2,2' - thimbia, dicarbamate, 2114¹
- C₁₅H₁₀N₂O₃ 8 Isoquinolinol, 1,2,3,4 tetrahydro-1 (2 nitroveratryl), 4552¹
- C₁₅H₁₀N₂O₃Si + 9H₂O, 3926¹
- C₁₅H₁₀N₂O₃Th + 3H₂O, 3926¹

- C₁₈H₂₆N₂O₄Ti + 10O 3926¹
 C₁₈H₂₆N₂O₄ 1 2 4 5 Benzacetate 3,6-diacetamido-tetracetate, 2129²
 C₁₈H₂₆N₂O₄S: Ethane *s* (m² nitrophenyl sulfanyl) decetate, 5392²
 C₁₈H₂₆N₂O₄ Oxazone decomps 183°, from compd decomps 265° 4233²
 C₁₈H₂₆N₂O₄ Oxazone from tetraacetylhydroxy glucal, 5596¹
 C₁₈H₂₆N₂O₄ Acetylphenylidimethylammonium picrate 91¹
 2 Butanone 3 dimethylamino 4 phenyl, picrate, 91¹
 Isodanamine methoxy V \-dimethyl-, picrate, 2139²
 2 Naphthylamine 1 2 3,4 - tetrahydro 1 methoxy \ methyl picrate 2139²
 C₁₈H₂₆N₂O₄ Homopiperonyl alcohol 5-methoxy α methyl β methylammonium picrate 4535¹
 C₁₈H₂₆N₂O₄ 2,5 Hexanedione, 3 - hydroxy, bis β nitrophenylhydrazones, 494¹
 C₁₈H₂₆O Ether benzyl 5 6 7,8 tetrahydro 2 naphthyl P 2725²
 C₁₈H₂₆O Phenol, β -amyl-, benzoate, 1229²
 Phenol pentamethyl, benzoate 4533¹
 2,6 Xylenol 4 ethyl α phenyl acetate 930¹
 C₁₈H₂₆O Anthracene 9 10 dihydro 2,3,6,7 tetramethoxy 2145¹
 Bulfinic acid, δ β amyl δ hydroxy α -phenyl Me ester 2958¹
 Des- γ inobis tetrahydro- 2731¹
 C₁₈H₂₆O₃ Acetic acid, α α' (1,5 naphthylene dihydro)-bis- di Et ester, 3341¹
 C₁₈H₂₆O₄ 1,9,10 Anthracene, tetrahydro-diacetate 3903¹
 Desoxyphylodulonic acid dimethyl-, 3079²
 C₁₈H₂₆O₄ Acid in 186¹, from action of *Fraxilium glaucum* on sucrose, 1499²
 Valeric acid, 6-tertiary, 934¹
 C₁₈H₂₆O₄ Acid, in 202¹, from action of *Fraxilium glaucum* on sucrose, 1499²
 C₁₈H₂₆Br₂N₂O₄ Diphenethylamine, 3' - bromo-3,4-dimethoxy-2-amino-, 4552²
 C₁₈H₂₆NO Butyrophonone, α - dimethylammonio- β -phenyl, 91¹
 Capronalide, α -phenyl, 2135²
 C₁₈H₂₆NO₂ Benzamide, β' isomeric 2706²
 Dehydrogustone β -toluene-, 2121²
 Desoxycodeine, and salts, 3655 & 71²
 Ethanol, 2 - methylphenethylammonio-, benzoate, -HCl, 2109²
 Phenol, pentamethyl-, carbamate, 4533¹
 1 Propanol, 3 - benzylmethylammonio-, benzoate, -HCl, 2709²
 -, 3 (2 4-xylyl)-, carbamate, 693²
 Propiophenone, β - β - methyl - α - dimethylammonio-, 91¹
 Spiroindan 2,3' pyrrolidine] - 2', 3' - dione tetrahydro-1' phenyl, 3334²
 C₁₈H₂₆O₄ (See also Codine)
 Metacodone, dihydro-, 959²
 Metathibamone, 959²
 Phenethylamine, *N* amide 3,4 dimethoxy, 3632²
 -, β -methoxy γ veratral, 3632²
 Thebanone, 5077¹
 C₁₈H₂₆NO₄ Amide γ - (3,4 - dimethoxy phenethyl)-, 5078¹
 Codonone, dihydrohydroxy, 959²
 1 thanol, 2 amino 1,2 di- β amino Ac deriv 1240²
 Glutaconic acid, γ benzyl - α - cyano - β methyl, di Et ester, 2696²
 Piperonylamine, *N* - (3,4 - dimethoxy phenethyl)-, and salts 3633¹
 Resorcinol, 4 - (1,2,3,4 - tetrahydro - 5,7 dimethoxy - 2 methyl - 1 - isouquinolyl)-, 5476¹
 C₁₈H₂₆NO₂S Ephedrine, \ phenylsulfonyl, acetate, 653¹
 C₁₈H₂₆NO₂ β Asaronophenolide, 3154²
 C₁₈H₂₆NO₂S Sinomenonesulfonic acid, 1533²
 C₁₈H₂₆N₂O₂ 2 - Propanone, 1,3 dinitryl-, semi carbazone, 5409²
 C₁₈H₂₆N₂O₂ Acetophenone 2 hydroxy - 3 methyl - 5 propyl-, β - nitrophenyl hydrazones, 929²
 C₁₈H₂₆N₂O₂ Benzyl, 1,5-di β phenethyl-, 936²
 C₁₈H₂₆N₂O₂S Alamine *N* [N (N 2-naphthylsulfonyl)amyl]glycolyl-, 2741¹
 C₁₈H₂₆N₂O₂ Benzene, hexamethyl-, picrate, 1815¹
 C₁₈H₂₆N₂O₂ Idosyl-6 amine, β nitrophenylsulfonate 2126²
 C₁₈H₂₆ Benzoyl, 940¹, 1134¹, 2713¹
 C₁₈H₂₆As₂N₂O₂S Acetophenone, 3,3' - arsenobis [5 - amino - 6 hydroxy, bisethane carbazone, P 967²
 C₁₈H₂₆BrNO Dimethyl - α - methylbenzylphenacylammonium bromide, 91¹
 C₁₈H₂₆BrNO₂ β - Methoxybenzylid methylphenacylammonium bromide, 91¹
 C₁₈H₂₆BrNO₂ Thebanone, 1 bromohydro-, and salts, 959²
 C₁₈H₂₆BrNO₂ Thebanone, 1 bromohydrohydroxy-, 959²
 C₁₈H₂₆N₂ Acetate, 1 2 3,4 tetrahydro 5-(1 piperidyl)-, 3346¹
 C₁₈H₂₆N₂O 2 Isodanacetamide, α - cyano-3 α , 4 5,6,7,8a tetrahydro-, 3333²
 C₁₈H₂₆N₂O₂ Ethanol, 2 methylphenethylammonio-, β -aminobenzoate, di HCl, 2709²
 Phthalimide, Δ (11) (upanyl-, 3007¹
 1 Propanol, 3 benzylmethylammonio-, β aminobenzoate, di HCl, 2709²
 Urea, α cyclohexyl α - (2 isopropylmethyl) β phenyl, 1810²
 C₁₈H₂₆N₂O₂ 6 Isoquinolol, 1 - (2 aminoveratryl) 4,2 3,4 tetrahydro-, 4552²
 Metacodone, dihydro- oxime 959²
 Metathibamone oxime, 959²
 C₁₈H₂₆N₂O₂ Apone, benzylphenylhydrazones, 929²
 Arabinose, benzylphenylhydrazones, 4527¹
 Isopropiopropanone acid, 2 (3 - carboxy 3 ethyl 4 methyl 2-pyrrolimethylene) dimethyl-, HBr, 1114, 4009¹
 Urea, α -phenyl β (trimethoxyphenethyl) 5409²
 C₁₈H₂₆N₂O₄ 4 - Isopropylcarboxylic acid 2 (3 - carboxy 4 - methyl - 2 - pyrrolimethylene) - 3 5 dimethyl-, di Et ester, 4010¹
 4 Isopropiopropanone acid, 2 (3 - carboxy - 3 - hydroxy 4 - methyl - 2 - pyrrolimethylene) - 3,5-dimethyl-, 4009¹, 4010¹
 -, 2 - (3 - carboxy - 5 - hydroxy - 4 methyl - 2 - pyrrolimethylene) - 3 - methyl, Me ester, 4010¹
 C₁₈H₂₆N₂O₄ Uvali, tetraacetylglucoside-, 84¹
 C₁₈H₂₆N₂ Uacetyl, methylphenylsulfonate, 1435¹
 C₁₈H₂₆N₂O₄ Phenethylamine, β methoxy *N,N*, α -trimethyl-, picrate, 1814¹

- C₁₈H₂₆N₂O₂ Threobromone, 1 (β dimethyl eminoisopropyl)-, picrate, 1031¹
- C₁₈H₂₆O 2 - Pentanol, 2 methyl 4,4 di phenyl, 4240¹
- C₁₈H₂₆O₂ Caprobenone, β 2 furyl α α di methyl, 5423¹
- C₁₈H₂₆O₃ Glycolaldehyde, diphenyl di Et acetal, 2113¹
- C₁₈H₂₆O₄ Propiophenone, α - hydrosy β methoxy β phenyl di Me acetal 941¹
- C₁₈H₂₆O₅ Reduction product, m 237°, of acid m 202°, 1499¹
- C₁₈H₂₆AsBr₄ Benzylidethylphenylarsonium iodide CHBr₃ compd, 282¹
- C₁₈H₂₆AsI₄ Benzylidethylphenylarsonium iodide CHBr₃ compd 282¹
- C₁₈H₂₆BrN₂O₂ Thebenone, 1 bromodihydro-oume, 959¹
- C₁₈H₂₆BrN₂O₄ 4 Isopyrrolepropionamide, 2 (3 bromo 3 (β carbanylethyl) 4 methyl) 2 pyrrolimethylene) 3 5-dimethyl, 2435¹
- C₁₈H₂₆BrN₂ Benzylidethylphenylammonium iodide CHBr₃ compd, 282¹
- C₁₈H₂₆Cl₂N Benzylidethylphenylammonium iodide CHCl₃ compd 282¹
- C₁₈H₂₆FIN Ethyl(β fluorobenzyl)methyl(β methylbenzyl)ammonium iodide 925¹
- C₁₈H₂₆HgI₂ Dibenzylbutylsulfonium mercurotrioxide 689¹
- C₁₈H₂₆I₂N Benzylidethylphenylammonium iodide CHCl₃ compd 282¹
- C₁₈H₂₆NO₂ Cinebromic acid, α methylheptyl ester 4549¹
- Desoxycodeine dihydro and salt, 3653¹ 3656¹ 1
- Diphenethylamine 3,4 dimethoxy, and salt 3632¹
- 4 Heptanol, 1 naphthalenecarbamate 496¹
- 1 Hexanol 3 methyl 1 naphthalenecarbamate 3626¹
- Quinaldic acid α methylheptyl ester 4549¹
- Triethylamine β (β - phenoxyphenoxy) HCl P 5249¹
- C₁₈H₂₆NO₃ p Toluenesulfonamide V methyl V (4-phenylbutyl), 2709¹
- β Toluenesulfonamide N isomay) 1797¹
- C₁₈H₂₆NO₄ Cadene, dihydro-, 1813¹, 3004¹
- 2 Indanecarboxylic acid hexahydro 2 (phenylcarbamylmethyl) 3333¹, 3334¹
- Phenethylamine, 3 4 dimethoxy V β methoxybenzyl and salt, 3633¹
- Soomenol, demethoxydihydro-, 299¹
- Veratrylamine, N (β methoxyphenethyl) and salt, 3633¹
- C₁₈H₂₆NO₅ 2 Camphanecarbinol β methobenzoate, 507¹
- Glutaric acid, β - benzyl α cyano α methyl, di Et ester 1803¹
- , α cyano β (α methylbenzyl), di Et ester 1803¹
- C₁₈H₂₆O₆ 3 o - Piperidinedicarboxylic acid 1 benzyl - 4 keto - 2,6 dimethyl, di-Me ester, P 1037¹
- C₁₈H₂₆N₂O₃ β Toluenesulfonamide, β nitro-compd with piperidine 2727¹
- C₁₈H₂₆N₂O₃ Sinomenonesulfonic acid, dioxime, 1533¹
- C₁₈H₂₆N₂O₄ Camphanic acid, 4 - ethoxy 2,8-dimethoxy, 2721¹
- C₁₈H₂₆N₂ 3 L-arvone thi-4 p tolysemicarbazone 1225¹
- C₁₈H₂₆N₂ Naphthalene di tri butyl 944¹
- C₁₈H₂₆BrN₂ Isopyrrole 5 (bromomethyl) 2 (3 bromo 4 methyl 3 propyl 2 pyrrolimethylene) 3 methyl 4 propyl salt 3009¹
- C₁₈H₂₆N₂N₂Zn 3029¹
- C₁₈H₂₆N₂N₂ Benzylisobutylmethylphenylammonium iodide 1502¹
- C₁₈H₂₆N₂I₂ 1 Methylpyridinium iodide compd with β phenylecdamine 5426¹
- C₁₈H₂₆N₂Zn 3923¹
- C₁₈H₂₆N₂ 3 3 Bimesidine 940¹
- C₁₈H₂₆N₂O₂ Benzylisobutylmethylphenylammonium nitrate 1502¹
- Cantharic acid 2 (diethylaminoethoxy) Et ester P 7121¹
- 2 ethoxy β diethylaminoethyl ester 5245¹
- Isopyrrolepropionic acid 2 (ethyl α hydroxymethyl β pyrrolimethylene) dimethyl, Me ester 4008¹ 4009¹
- 2 (3 ethyl 5 methoxy 4 methyl 2 pyrrolimethylene) 3 5 dimethyl 4008¹
- C₁₈H₂₆N₂O₂ Apocudine N acetylcarboxy 4003¹
- C₁₈H₂₆N₂O₃ 3 3 Et β toluenesulfonamide V N N triamethyl 283¹
- C₁₈H₂₆N₂O₄ Nicotinic acid 1 (γ hydroxy propyl) Et ester β nitrobenzoate HCl P 1037¹
- O₁₈H₂₆O₂ See Talcid
- C₁₈H₂₆O₂ Cyclohexanol 2 butyl acid phthalate 1809¹
- C₁₈H₂₆BrN₂ Isopyrrole 2 5 bromo 4 methyl 3 propyl 2 pyrrolimethylene) 3 5 dimethyl 4 propyl HBr 3009¹
- O₁₈H₂₆IN₂O₂ Nucidine 2 keto 3 hydroxy methiodide 706¹
- C₁₈H₂₆NO α Toluenamide V 3 carvomen thenyl 1234¹
- O₁₈H₂₆NO₂ Anisamide, N 3 carvomenthenyl 1234¹
- Thebacodine dihydro-, 2432¹
- C₁₈H₂₆NO₄ Camphanic acid dimethyl 2711¹
- C₁₈H₂₆NO₅ α Camphorsulfonamide, V ethyl, 3323¹
- C₁₈H₂₆NO₆ Camphanic acid 4-ethoxy, 2711¹
- Navian 1255¹
- Nicotinic acid, 1 (γ hydroxypropyl) Et ester, benzamide, HCl, P 1037¹
- Tropic acid, β 1 piperidylethyl ester, acetate, 1255¹
- C₁₈H₂₆NO₆ Glucose, oxime, hexaacetate 1229¹
- C₁₈H₂₆N₂O₂ Spero(cyclopentane 1,2 - nidan)-2,5 dicarboxylic acid, hexahydro - 3,4 diketone, di Me ester, semicarbazone, 3335¹
- C₁₈H₂₆N₂O₂ Nucidine, dihydrodiketo-, semi-carbazone, 4275¹
- C₁₈H₂₆N₂O₂ Nacidine aldehyde, 3 keto-2 hydroxy, semicarbazone, perchlorate, 706¹
- C₁₈H₂₆N₂O₃ 3 Hexanone, β dimethylamino-, picronate 4323¹
- C₁₈H₂₆CaN₂O₄ + 3H₂O See (p)al
- C₁₈H₂₆CuO₄ Malonic acid, (α hydroxyethyl) dene), di Et ester, Cu deriv, 2978¹

- C₁₁H₂₂ 2 Heptadecene, 2 methyl 671
 C₁₁H₂₁Cl₂N₂O₂Pt Choline, acetylcholine
 chloroplatinate 3315^a
 C₁₁H₂₁N₂O₂ Lysergic acid, N², N¹-diethyl 2974^a
 C₁₁H₂₁O₂ (See also Stearic acid)
 Cetyl alcohol, acetate, 5331^a
 Cyclohexanone dihexyl acetal 5229
 Palmitic acid Ester 3313^a, 5392^a
 Tuberculoic acid, 1251^a
 C₁₁H₂₁O₂S Stearic acid, α-mercapto 952^a
 C₁₁H₂₁O₂ Stearic acid, β, dihydroxy, 489
 C₁₁H₂₁O₂ Phloionolic acid 4831^a
 C₁₁H₂₁O₂ Saviic acid 489^a
 C₁₁H₂₁O₂ Linonic acid 489^a
 C₁₁H₂₁I Octadecane, 1-iodo- 277^a
 C₁₁H₂₁NO₂ Sphingosine 4274^a
 C₁₁H₂₁NO₂ Carbamic acid (trihydroxy) octa-
 decyl Ester 5394^a
 C₁₁H₂₁ Heptadecane 2 methyl 67
 Octadecane 4223^a
 C₁₁H₂₁N₂O₂ 1,4 Piperazinediethanol *m* *m*
 dibutyl *m*, *m* dimethyl and *d* HCl 517^a
 1,4-Piperazinediethanol *m* *m* diisobutyl
m *m* dimethyl and *d* HCl 517^a
 C₁₁H₂₁N₂O₂ 1,4 Piperazinediethanol *m* *m*
 bis butoxymethyl and *d* HCl 517^a
 1,4-Piperazinediethanol *m* *m* bis *m*
 butoxymethyl and *d* HCl 517^a
 C₁₁H₂₁O (See also 1-Octadecanol)
 Ether, cetyl ethyl 5392^a
 2 Heptadecanol 2 methyl 67^a
 C₁₁H₂₁As Arsenic trihexyl 631^a
 C₁₁H₂₁N₂O₂PW₂ Glycine V A dimethyl
 Esterbarnine phosphotungstate 657^a
 C₁₁H₂₁OP Phosphoric oxide trihexyl 566^a
 C₁₁H₂₁O₂P Libanol 2 butoxy phosphate
 P 3657^a
 C₁₁H₂₁P Phosphoric trihexyl 662
 C₁₁H₂₁Cl₂N₂O₂Pt 2 (3 Hydroxyethyl) 3 1
 d methylpiperidinium chloroplatinate
 1614^a
 1 β-Methoxyethyl 1 methylpiperidinium
 chloroplatinate 1614^a
 C₁₁H₂₁Cl₂N₂O₂Pt Cholera butyl chloro-
 platinate 3315^a
 C₁₁H₂₁N₂O₂PW₂ Homocurine phosphotung-
 state 657^a
 C₁₁H₂₁N₂O₂PW₂ Choline α-methyl phospho-
 tungstate 657^a
 C₁₁H₂₁N₂NI₂S 3995^a
 C₁₁H₂₁Br₂LiO₂6 Phenolsulfonephthalein tetra-
 bromotetraiodo 511^a P 968^a
 C₁₁H₂₁Br₂O₂3 Phenolsulfonephthalein tetra-
 bromo- 511^a
 C₁₁H₂₁Li₂N₂O₂3 Phenolsulfonephthalein 4 5 6 7
 tetraiodotetraiodo- 511^a
 C₁₁H₂₁LiO₂5 Phenolsulfonephthalein octaiodo
 511^a
 C₁₁H₂₁NO₂ 4 *meso* Benzanthrene 7 8 di-
 carboxylic anhydride, 4 keto 5 (or 6)
trans, 3337^a
 C₁₁H₂₁Br₂O₂4 *meso* Benzanthrene 7 8 di-
 carboxylic anhydride 5a, 7 dibromo-
 5a, 7 dihydro-4 keto- 2921^a
 C₁₁H₂₁Br₂O₂3 Sulfonefluorescein, 4, 5, 6 7
 tetrabromo-, 511^a
 C₁₁H₂₁Cl₂LiO₂3 Phenolsulfonephthalein dichloro
 tetraiodo-, P 968^a
 C₁₁H₂₁LiO₂3 Sulfonefluorescein, 4' 6 8' 7
 tetraiodo-, 511^a
 C₁₁H₂₁LiO₂3 Resorcinolsulfonephthalein hexa-
 iodo-, P 968^a
 C₁₁H₂₁O₂ 4 *meso* Benzanthrene 7, 8 di-
 carboxylic anhydride 4 keto-, 2911^a
 C₁₁H₂₁O₂ 2 Thionaphthene-2-carboxylic acid
 1 1 carbonyl is anhydride 5167^a
 C₁₁H₂₁ClO₂ 5 Benzo[1]naphthene 6 12-dione
 2 chloro 1 methyl 5167^a
 C₁₁H₂₁NO₂ 4 *meso* Benzanthrene 7 8 di-
 carboxylic acid 4 keto 2911^a
 C₁₁H₂₁NO₂3 Dibenzo[1]naphthene 7 one 3-
 nitro 5167^a
 C₁₁H₂₁Br₂O₂ 4 *meso* Benzanthrene 7 8 di-
 carboxylic acid 6a 7 dibromo 6a 7
 dihydro 4 keto 2921^a
 C₁₁H₂₁Br₂O₂3 Phenolsulfonephthalein tetra-
 bromo 511^a P 968^a
 C₁₁H₂₁ClO₂ Benzoic acid 2 3 4 5 tetrachloro
 6 1 methoxy 1 naphthyl 3995^a
 C₁₁H₂₁LiO₂3 Phenolsulfonephthalein 4 5 6 7
 tetraiodo 511^a
 C₁₁H₂₁N₂O₂ 8 Indolo[3 2 1 *a*]acridin 8
 one 6 nitro 2918^a
 C₁₁H₂₁O₂3 Dibenzo[1]naphthene 7 one 5166^a
 C₁₁H₂₁O₂ 4 *meso* Benzanthrene 7 8 di-
 carboxylic acid 4 keto and 6a 10
 2919^a
 C₁₁H₂₁O₂ 2 Thionaphthene-2-carboxylic acid
 1 1 carbonyl is 5167^a
 C₁₁H₂₁BrN₂ Acenaphthoquinonizaline bromo-
 methyl 2715^a
 C₁₁H₂₁Br₂N₂ Acridine dibromo 6 phenyl
 and HCl 4271^a
 C₁₁H₂₁ClN₂ Acenaphthoquinonizaline chloro-
 methyl 2715^a
 C₁₁H₂₁ClO₂ 1 Thionaphthene-2-carboxylic acid
 2 (4 chloro 3 methyl 1 thionaph-
 thene-2-carboxyl) 5167^a
 C₁₁H₂₁NO₂ 8 Indolo[3 2 1 *a*]acridin 8 one
 2918^a
 C₁₁H₂₁NO₂ Dibenzo[1]naphthene 7 one 3
 amino- 5167^a
 C₁₁H₂₁NO₂ 2 Thionaphthene-2-carboxylic acid
 1 (4-carboxy 2 quinolyl) 5167^a
 C₁₁H₂₁BrCl₂N₂O₂3 *m* Benzenesulfonotoluide
 5 bromo 2 chloro 6 hydroxy 3-
 nitro- 2 chloro 6 nitrobenzenesul-
 fonate 5406^a
 C₁₁H₂₁BrCl₂N₂O₂3 *m* Benzenesulfonotoluide
 5 bromo 3 4 dichloro 6 hydroxy
 3 4-dichlorobenzenesulfonate 5406^a
 C₁₁H₂₁Br₂O₂ Naphtho[1]mannone, bromo(α-bromo-
 benzyl) 3339^a 3340^a
 C₁₁H₂₁Br₂O₂ 1 5 Naphthalenediol 2 6 di-
 bromo 1 acetate, 5-bromoate 5121^a
 C₁₁H₂₁Cl₂N₂O₂ Ketone, 1 isouquinolyl 2
 quinolyl amino 1^a chloride salt, 5862^a
 C₁₁H₂₁Cl₂O₂ Benzene acid 4 5 dichloro 2
 naphthyl Me ester 4874^a
 C₁₁H₂₁Cl₂O₂3 See Chlorophenol red
 C₁₁H₂₁LiO₂3 Phenolsulfonephthalein, diiodo-
 P 903^a
 C₁₁H₂₁N₂O₂8 Indolo[3 2 1 *a*]acridin 8 one,
 6 amino, and *d* HCl, 2993^a
 Ketone 1 isouquinolyl 2 quinolyl, and
 HCl, 5862^a
 C₁₁H₂₁O₂ Naphthacenequinone 2 methyl, 5162^a
 Naphthofurancene, benzal, 3339^a
 C₁₁H₂₁O₂ 1 2 Benzanthrene 7, 12 dione,
 hydroxymethyl 4874^a
 5 6 Benzenavone 2 hydroxy, 3340^a
 Naphthacenequinone 1 hydroxy 4
 methyl, 3363^a
 C₁₁H₂₁O₂ 1 2 Benzanthrene 7 12 dione 8, 11
 dihydroxy 9 (or 10) methyl, 4874^a

8. Benzoflavone 3,4 dihydroxy, 476^a
 Naphthoquinone 1,4 dihydroxy 2 methyl 3163¹
- C₉H₈ClN₂O₂ Picridine 4 chloro 2 dibenzoyl amino 2429^a
 Quinone 2 chloro- 1 oxime compd with acridine 3669^a
- C₉H₈ClNO Benzamide acid, γ (chlorophenyl) chlorophenylester, 602^a 214^a
 C₉H₈ClNO₂ Sulfide = chlorobenzohydroxy 4 chloro 1-m-tropenyl 2413
 C₉H₈ClN Benzophenone 12,4,6 trichlorophenylhydrazone 2408^a
 C₉H₈IN₂O₂ Pyridine 2 dibenzylamino 4-iodo 2429^a
 C₉H₈N Aniline γ 9-fluorenone 4246^a
 C₉H₈NO Naphthylamine γ (1 benzofurylmethylene) (?) 1946^a
 C₉H₈NO₂ 7-meso Benzanthreneone, acetyl amide 3170^a
 C₉H₈NO₂ Benzenophenone 4-methoxy 4-phenyl, 2127^a
 C₉H₈NO₂ Benzenophenone 3-nitro 4-phenyl mercapto 2128^a
 Benzenophenone 4- β -methylmercapto 2125^a
 C₉H₈NO₂ Benzenophenone nitro-4-phenoxy, 2127^a
 Δ^1 1 Propenone 1 (8 hydroxy 5-quinolyl) 3 (3,4-methylenedioxy phenyl) 2^a 2^a
 C₉H₈NO₂ Acetic acid (1 cyano 2 anthraquinonylmercapto) Et ester 2^a 2^a
 C₉H₈N₂O₂ 1,3,2,4,5-tetraoxadithione, 4 naphthylazo- 3618^a
 C₉H₈N₂O₂ Nicotinic acid, 1,2-dihydro 2-keto 1-methyl 6 (β -naphthyl) 4-phenyl, 2146^a
 C₉H₈N₂O₂ Fluorene picrate 1816^a
 C₉H₈N₂O₂ Benzinthiazole, 1-anilino-pictate 104^a
 C₉H₈BrNO₂ Sulfide = bromobenzohydroxy 1-m-tropenyl, 2413^a
 C₉H₈BrN₂ 1-ormamylone, γ γ (1-bromo-phenyl)- α -phenylazo-, 2^a 2^a
 C₉H₈BrN₂O₂ m-Benzene-sulfonotoluene 4,5-dibromo 6-hydroxy, β -benzenesulfonate 5489^a
 C₉H₈ClN₂O₂ Benzamide 4^a chloro 3-(β -chloroanilino)-3-hydroxy, F ester 5 98^a
 C₉H₈ClO₂ Cisoid dichloro α phenyl, benzenesulfonate, 3639^a
 C₉H₈INO₂ Anthracene 1,8-pyrene 2-carboxylic acid, 3-hydroxy, F ester 5 deriv 948^a
 C₉H₈N₂O Nicotinonitrile 1,2-dihydro 2-ketophenyl 1-methyl 15 5^a 1529^a 2145^a
 C₉H₈NO₂ 1-Acetylbenzamide γ - nitrobenzyl, 2958^a
 Benzene α 1, 14 keto Δ^1 cyclohexyl dimethylmethylhydrazide 5131^a
 Nicotinonitrile 4 (β amide) 1,2-dihydro-2-keto-6-phenyl 450^a
 Phenyl β -phenylazo-benzonate 5151^a
 C₉H₈N₂O₂ Acetylbenzamide 1 benzamide 3-oxo- 3^a 2^a
 C₉H₈NO₂ 1-benzamide γ 1,2- β -anil 4-ethylmethyl 9^a
 C₉H₈NO₂ Anthracene 1,5-nitro γ γ 1,1-phenyl 457^a
 1,2-dimethylpyran 4-acetyl α d
- α 3-dicarbonyl 3,4-dihydro-2-keto, Et ester, 2146^a
 C₉H₈N₂O₂ Phthalimide, γ [β - 4 (3,4-dihydroxy phenyl) - 2 thiazyl]ethyl], 2722^a
 C₉H₈N₂O₂ Benzoic acid, 2 (1-naphthyl) 3,5-dimethyl, Et ester, 4208^a
 C₉H₈N₂O₂ Urea, α bis(6-hydroxy-4-quinolyl), 954^a
 C₉H₈N₂O₂ Diphenylamine, 3,3-dinitro 2 (phenylaminoethyl), 3974^a
 C₉H₈O₂ 7-meso Benzanthreneone, 2,6-dimethyl, F 1260^a
 Benzophenone, β -phenyl, 4206^a
 9-Fluorene, 9-phenyl 3983^a
 1-Indenyl ketone 1517^a
 C₉H₈O₂ Acrylphenone β - (3-hydroxy 2-naphthyl) 2146^a
 2-Fluoranthene-carboxylic acid Et ester, 5163^a
 Xanthidrol, 9-phenyl, 99^a
 C₉H₈O₂ 7-meso Benzanthreneone, 2,3-dimethoxy, F 712^a
 Furano 3,4,5,10-tetrabenzene 12,14-dione 5 10 11, 15-tetrhydro 11-methyl, 3646^a
 2-Naphthoic acid, 3-benzoyl, Me ester, 5162^a
 - 3 β -tolyl 5162^a
 Salicylic acid 4,6-diphenyl, 3327^a
 C₉H₈O₂ Benzoic acid, β - (2-hydroxy 1-naphthyl), Me ester 5418^a
 Benzoic acid β (2-methoxy 1-naphthyl), 5418^a
 C₉H₈O₂ See Phenylsulfonaphthalene
 C₉H₈O₂ Chromanone 7-hydroxy 3-piperonylone, acetate 1534^a
 Dandron, dicarboxylate 5875^a
 C₉H₈ Trisphenylmethyl, 991, 2991^a
 C₉H₈Ng₂ Indole base, Ag deriv, 103^a
 C₉H₈Br Methane bromotriphenyl, 1429^a
 C₉H₈Br₂g₂ Triphenylmethylmagnesium bromide, 4256^a
 C₉H₈BrN₂ Benzaldehyde, α (β -bromophenylazo), phenylhydrazonate, 5152^a
 Benzaldehyde, α -phenylazo-, β -bromophenylhydrazonate 5152^a
 C₉H₈BrN₂O₂ β -Toluenesulfonamide, 2,6-dibromo-4-phenyl, 2727^a
 C₉H₈ClN₂ Methane eliotolyl phenyl 69^a, 942^a, 1429, 2034, 5409^a, 5819^a
 C₉H₈ClN₂O₂ Phenyl β -phenylazo, compd with BrCl 3311^a
 C₉H₈ClO₂ Carbazol, triphenyl, perchlorate 99^a
 C₉H₈CuN₂ Indole base Cu deriv 103^a
 C₉H₈N₂ 1-Acetylbenzamide, γ - benzal, 3983^a
 Acridine 5-phenyl 297^a
 Aniline γ -diphenylmethylane, 93^a, 282^a 4246^a
 C₉H₈NO Acenaphthene 1-benzoyl, 2988^a
 C₉H₈NO₂ Carbazol (triphenyl), in conc 7429^a
 C₉H₈N₂O Benzoquinone 3-amino-4-phenoxy and HCl 2127^a
 C₉H₈N₂O₂ Acenaphthene 4-benzyl 8-nitro 151^a
 Anthracene 1,8-pyrene 2-carboxylic acid, 1-ethyl 1-keto-1-ester, 945^a
 C₉H₈NO 1-glycerine 312^a
 Indeno 3,1-diquinone d-methoxymethylmethyl 1123^a

- 2 Naphthoic acid 4 (benzamidomethyl) 3 hydroxy, 5399^a
- C₁₁H₁₁N₃O₇ 1 Indanone, 4,5 dimethoxy 2 (6 nitropiperonylidene) 1253^a
- 1 - Indanone, 4,5 methylenedioxy 2 (6 nitroveratral) 1253^a
- C₁₁H₁₁N₃O₇ 2 Naphthaldehyde 3 hydroxy acetate *p* nitrophenylhydrazones 2146^a
- 2 Naphthoic acid, 3 methoxy, α (and ω) nitro enzalhydrazide 2138^a
- C₁₁H₁₁N₃O₇ Benzaldehyde, α (*p* nitrophenyl azo) phenylhydrazones, 5152^a
- C₁₁H₁₁N₃O₇ See *Mefenox triphenyl*
- C₁₁H₁₁N₃O₇ Benzaldehyde, α benzene-sulfonotoluene 5 beam 6 hydroxy, benzenesulfonate 5108^a
- C₁₁H₁₁N₃O₇ Guanidine α anilino β *tert* butyl (bromophenyl) 2701^a
- C₁₁H₁₁N₃O₇ 1,1 Cyclopropanedicarboxylic acid 2,3 dibromo 2,3 diphenyl di Me ester 1506^a
- C₁₁H₁₁N₃O₇ Cinchophen 6 methoxy *p* chloroethyl ester 4883^a
- C₁₁H₁₁N₃O₇ 3,4,5 trihydroxy 3,4,5 trimethyl 2714^a
- C₁₁H₁₁N₃O₇ Benzophenone *p* hydroxy phenyl hydrazones 659^a
- C₁₁H₁₁N₃O₇ Benzamide 3 amino-5 hydroxy *p* 5203^a
- 2 Naphthoic acid 3 methoxy benzal hydrazide 2138^a
- Nicotinonitrile 4 *p* anisyl 1,2,3,4 tetrahydro 2 keto 6 phenyl 4882^a
- Phthalimide *N* (4,3 indylpropyl) 511^a
- Triphenylamine 2 methyl 4 nitro 500^a
- C₁₁H₁₁N₃O₇ Cinchophen 7 acetamido-6 methyl 619^a
- Faolan 3127^a
- Naphthol phenylazo ethylcarbonate 5151^a
- 5152^a
- C₁₁H₁₁N₃O₇ Mesaconic acid *p* nitrobenzyl ester 3626^a
- C₁₁H₁₁N₃O₇ Benzaldehyde α phenylazo phenyl hydrazones 5152^a
- 1 Tetrazene 4 benzal 1,3 diphenyl 5152^a
- C₁₁H₁₁N₃O₇ Anisole, 2,4,6 trimethoxy compd with Ph₃NH 855^a
- Quinolone 2,3,4-butenyl, picrate 1829^a
- C₁₁H₁₁N₃O₇ *p* Toluidine α amino- dipicrate 4244^a
- C₁₁H₁₁N₃O₇ (See also *Carbinol triphenyl*) 1 Acetonaphthone 4 benzyl 1515^a
- Ketone 4 benzyl 1 naphthyl methyl *p* 1684^a
- , 4,7 dimethyl 1 naphthyl phenyl 2716^a
- 1 Propionaphthone *p* phenyl 4256^a
- C₁₁H₁₁N₃O₇ Benzhydrol, α -phenoxy 3984^a
- Hydrogen peroxide triphenylmethyl 3984^a
- Propiophenone, β 2 lauryl *p* phenyl 1520^a
- C₁₁H₁₁N₃O₇ 2 Thiopheneacetic acid, ω , α di phenyl, Me ester 2143^a
- C₁₁H₁₁N₃O₇ Benzene, 1 (*p* methoxyphenoxy) 4 phenoxy 1816^a
- Des-A homotriolobane, 2732^a
- α Toluic acid α (2 methoxy 1 naphthyl) 5418^a
- C₁₁H₁₁N₃O₇ 1,1 Cyclopropanedicarboxylic acid, 2,3 diphenyl, di Me ester, 1806^a
- 1,1 Indenedicarboxylic acid, 3 phenyl di Me ester 1517^a
- Retenquinonecarboxylic acid 513^a
- C₁₁H₁₁N₃O₇ 3 Carbanol triphenyl acid sulfate 99^a
- C₁₁H₁₁N₃O₇ 3 Toluene 2,4 bis (phenylsulfonyl) 283^a
- C₁₁H₁₁N₃O₇ Anthradol methoxy diacetate 1519^a 15,04^a
- 4 Chamaecone 3 vanillic acetate 1534^a
- C₁₁H₁₁N₃O₇ Cinnamic acid 3 (*p* β carboxy vinylphenoxy) 4 methoxy 2383^a
- C₁₁H₁₁N₃O₇ Luxanthic acid 5416^a
- C₁₁H₁₁N₃O₇ Methyl mercaptan triphenyl 3618^a
- C₁₁H₁₁N₃O₇ Thioxanthone 1 hydroxy 2 methoxy 4 methyl diacetyl oxime 2725^a
- C₁₁H₁₁N₃O₇ 3 Thioxanthone 1 hydroxy 2 methoxy 4 methyl diacetyl oxime 10 dioxide 2725^a
- C₁₁H₁₁N₃O₇ Phenol *p* naphthylazo compd with Et₂COCl 33-2
- C₁₁H₁₁N₃O₇ Pyridine 1 benzyl enl EtCl 5429^a
- C₁₁H₁₁N₃O₇ NO Acetamide *N* (4 benzyl 1 naphthyl) 1515^a
- 1 Acetonaphthone 4 (enzyl oxime 1515^a)
- C₁₁H₁₁N₃O₇ (See also *Acetonaphthone*) Benzothienopyrindole[5,7] diacetyl 7,8,9,10 tetrahydro 15-2
- Cinebothen 1 ester 75013^a
- C₁₁H₁₁N₃O₇ Cinchophen 8 ethoxy Me ester 4884^a
- Cinchophen 6 methoxy Et ester 4884^a
- C₁₁H₁₁N₃O₇ Coumarin tetrahydro 513^a 4003^a
- 3 Quinolonecarboxylic acid 1,4 dihydro 4 keto 6 methoxy 2 phenyl Et ester 1530^a
- C₁₁H₁₁N₃O₇ (3,4) Oxazolone 2 phenyl 4 (2,3,5 trimethoxybenzyl) 4858^a
- C₁₁H₁₁N₃O₇ 2 Anthraquinone-sulfonic acid, 5- (1 isopropyl) 5421^a
- C₁₁H₁₁N₃O₇ 1,1 Cyclopropanedicarboxylic acid 2 nitro 2,3 diphenyl di Me ester 1806^a
- C₁₁H₁₁N₃O₇ (See also *Acetonaphthone*) Guanidine, triphenyl polyamides 2423^a
- C₁₁H₁₁N₃O₇ 2 Pyrovaldehyde 1 *p* tolyl, phenylhydrazones 2397^a
- C₁₁H₁₁N₃O₇ Cinchophen 6 hydroxy, isopropyl diethylhydrazide 4833^a
- Quinone α *n* ethylbenzalhydrazide 953^a
- 3 Quinolone-trifluoride 6,7 dimethoxy 2 *p* toluene 12-3^a
- C₁₁H₁₁N₃O₇ Thiourea[5,4,6] *p* isothiazine 2,9(3,5) dione (*p* dimethyl amino-phenyl amino) 6 methyl 4350^a
- C₁₁H₁₁N₃O₇ Imidaz[4,3-*a*]isoquinoline, 5,6 dihydro 8,9 dimethoxy 3 phenyl, nitro deriv., 1531^a
- C₁₁H₁₁N₃O₇ *p* Cinnamotoluene α cyano 4,5 dimethoxy 2 nitro-, 12-3^a
- 1 Naphthylamine *V* (*p* methoxyphenyl ethyl) 2,4-dinitro-, 540^a
- C₁₁H₁₁N₃O₇ Naphthalene, isopropyl, picrate 944^a 3971^a
- Naphthalene, propyl picrate 1815^a 1516^a
- , trimethyl picrate, 693^a, 694^a 1232^a, 1815^a, 4514^a
- Scopolamine picrate 2130^a
- C₁₁H₁₁N₃O₇ Naphthalene 7 ethyl 1 methyl, styphate, 961^a, 2987^a

- Naphthalene trimethyl styphate 6937,
694 1232 4544
- C₁₂H₁₁N₃O₁ Meconin 3 nitro 2 (2,3,4
trimethoxy 5,6 dimetaphenyl) 4519^a
- C₁₂H₁₁N₃O₁ 2,9 Pyridinodole 3,4 dihydro-
1,9-dimethyl picate 301^a
2,9 Pyridinodole 1 ethyl 3,4 dihydro
picate 300^a
- C₁₂H₁₁N₃O₁ Harman 3,4 dihydro 8 meth-
oxy, picate 301^a
- C₁₂H₁₁N₃O₁ 1 Isoquinolineacetamide 3,4
dihydro 6,7 dimethoxy picate 1230^a
- C₁₂H₁₁N₃O₁ Benzenesulfonic acid *p* (*p*-
benzenophenoxy) *p*-toluidine salt, 1816^a
- C₁₂H₁₁N₃O₁ Malonic acid bromo(*p* nitro *o*
p diphenylethyl) di Me ester 1806^a
- C₁₂H₁₁N₃O₁ Paraoxaniline perchlorate, 1513^a
- C₁₂H₁₁N₃O₁ Acridine 3 aniline 1,2,3,4 tetra-
hydro- and HCl 3345^a
quinoline *o* *p* dimethylaminobenzoal
HCl 4625
2 *p* Tolylenediamine *N* *N* diphenyl
and HCl 500^a
- Yabrine 2730^a 3003^a
- C₁₂H₁₁N₃O₁ 1 Naphthanide 4 dimethyl
ampho-, 1515^a
8 Quinolunil, 2 *p* dimethylaminoethyl,
4623^a
- C₁₂H₁₁N₃O₁ Benzoic acid, *p* (4 methylquinolyl
ampho) ethylester HCl, P 4663^a
Imidar[4,3 *o*]isoquinoline 5,6 dihydro-
8,4 dimethoxy 3 phenyl and salts,
1531^a
- C₁₂H₁₁N₃O₁ Cinchonamide *N* *N* hydroxy,
ethyl 6 methoxy 2 phenyl, 4553^a
p Cinchonolide *o* cyano 3,4 di-
methoxy 1253^a
4 Quinolinetartronic acid 6 methoxy 2
phenyl, Et ester 4854^a
- C₁₂H₁₁N₃O₁ Butyric acid, *γ* hydroxy *o* methyl
β *γ* bis(phenylcarbamoyl) *γ* lactone
1833^a
- C₁₂H₁₁N₃O₁ 3 Naphthol orange, propyl, 2003^a
- C₁₂H₁₁N₃O₁ Phenol, *p* cyclohexyl, 3,5 di-
nitrobenzoate, 298^a
- C₁₂H₁₁N₃O₁ Meconin, 3,4 dinitro 2-(2,4,6-
trimethoxyphenyl) 4519^a
Meconin, 3 nitro 2 (2,3,4 trimethoxy
6-metaphenyl) 4519^a
- C₁₂H₁₁N₃O₁ Anisole 2,4,6 trinitro, compd
with 2 C₁₁H₁₁N₃O₁ 553^a
Isoquinoline, 1 butyl, picate, 1829^a
Quinolone, butyl, picate, 1829^a
- C₁₂H₁₁N₃O₁ Δ¹ - 4,5 Pyrazolobenzoxycarboxylic
acid, bis(benzalkylhydrazide), 1526^a
- C₁₂H₁₁N₃O₁ 1,3-Cyclohexanedione, 2 benzyl 5-
phenyl 68^a
1,3-Cyclohexanedione, 2 methyl 4,5-
diphenyl, 68^a
Retenecarboxylic acid and Na salt 513^a
- C₁₂H₁₁N₃O₁ 9 Anthrol, 10 methoxydimethyl,
acetate, 3646^a 4547^a
Δ¹ 3 Hexenone 4-(*m* hydroxybenzyl)
5(*m* hydroxyphenyl) 2132^a
- C₁₂H₁₁N₃O₁ 2 Anthroic acid 9,10 dethoxy
6420^a
1,1 Indandicarboxylic acid 3 phenyl, di-
Me ester 1517^a
Truxilic acid, mono-Me ester 1009^a
- C₁₂H₁₁N₃O₁ Oxalacetic acid 3 hydroxy 2
methyl dimethyl ester di Et ester 2146^a
- C₁₂H₁₁N₃O₁ Phenethylamine, 2 bromo *N*
(3,4 dimethoxy - 2 - nitrophenylidene)
4 methoxy, 4502^a
- C₁₂H₁₁N₃O₁ 2 Ethyl - 1 (2 ethyl 1(2)
benzothiazolylidenemethyl) benzothiaz-
ium bromide 703^a
- C₁₂H₁₁N₃O₁ 4-Chloro 1 methyl 3-vera-
trylquinolinium iodide, 106^a
- C₁₂H₁₁N₃O₁ 2-Ethyl - 1 (2-ethyl - 1(2)
benzothiazolylidenemethyl) benzothiaz-
ium chloride, 703^a
- C₁₂H₁₁N₃O₁ + 3H₂O 2,4' Diethoxybaryum
chloride, 515^a
- C₁₂H₁₁N₃O₁ 2 Ethyl - 1 (2 ethyl 1(2)
benzothiazolylidenemethyl) benzothiaz-
ium iodide, 703^a
- C₁₂H₁₁N₃O₁ Retenecarboxamide 513^a
Thymol 6-(2-quinolyl), 4884^a
- C₁₂H₁₁N₃O₁ 2 Indeneacetosulfon, 3a,4,5,6,7,8a
hexahydro *o* piperonylidene, 3333^a
- C₁₂H₁₁N₃O₁ 2 Indolecarboxylic acid, 3 (5
phenoxylethyl) Et ester, 4880^a
Laureline, 3654^a
Trilobine, 2731^a
Trilobinol methyl, 2731^a
Truxilamide acid, Me ester, 1500^a
- C₁₂H₁₁N₃O₁ Berberubine, tetrahydro-, 5390^a
Bulbocapsine, 742^a, 2199^a, 3663^a
Nandimane, 5390^a
- C₁₂H₁₁N₃O₁ 3 Benzenesulfonic acid *p* phenoxy,
p toluidine salt 1816^a
- C₁₂H₁₁N₃O₁ Malonamic acid, *o*-methyl-*o*-vera-
tral, 5671^a
- C₁₂H₁₁N₃O₁ Meconin 3 nitro - 2 (2,4,6 tri-
keto 1,3,5 trimethylcyclohexyl),
4519^a
Meconin nitro 2 (trimethoxyphenyl),
4519^a
—, 2 (2,3,4-trimethoxy 6 nitrophenyl),
4519^a
- C₁₂H₁₁N₃O₁ (See also *Parafuchsin*)
Acetophenone, *p* methyl, 6 methoxy - 4
quinolylhydrazine, 934^a
- C₁₂H₁₁N₃O₁ 1,4,3 Isothiodiazine, 2 toluene-
5-*p*-tolyl, Ac ester 153^a
- C₁₂H₁₁N₃O₁ Cinchonamide *Y* (*β* - amino-
ethyl) 6 methoxy 2 phenyl, 4583^a
Quinolone 4-(*p* acetamidopropyl) - 6-
methoxy, 704^a
- C₁₂H₁₁N₃O₁ Benzenesulfonic acid, *p* phenyl
azo-, toluidine salt, 287^a
- C₁₂H₁₁N₃O₁ Skattonal, phenylhydrazine 208^a
- C₁₂H₁₁N₃O₁ 6 Burea, 1 (2 - naphthyl) - 2
thio-6-*o*-toluene 3634^a
- C₁₂H₁₁N₃O₁ Chalcone, *o* - bromo *β* - diethyl
amino-, 4245^a
- C₁₂H₁₁N₃O₁ Sonnentropine bromo- 950^a
- C₁₂H₁₁N₃O₁ 4-hydroxy, dihydro- 2730^a 3003^a
- C₁₂H₁₁N₃O₁ 1 Butanol, 4-(3 indyl), carbani-
late 514^a
- C₁₂H₁₁N₃O₁ Phthalazine, 6,7 dimethoxy - 1
veratryl, 297^a
- C₁₂H₁₁N₃O₁ Duroic acid 2,6 - dimethyl
4-*o*-nitrophenyl di Et ester 5426^a
- C₁₂H₁₁N₃O₁ Naloxanide *p*, *p*-diacetamido-,
1504^a
- C₁₂H₁₁N₃O₁ 2 Benzyl[3]quinolizone 1,3,4,6,11,
11a hexahydro- picate 5429^a
Quinolone 2 butyl 1,2 dihydro-, picate,
1829^a
- C₁₂H₁₁N₃O₁ Compd, m 202^a (from compd m
208^a and acetone, 5425^a)
- C₁₂H₁₁N₃O₁ Pyridine 3 (2 pyridyl), picro-
nate 300

- C₁₅H₂₂O₂ 2,4 Penanedione, 3,3 dibenzyl 82¹
- C₁₅H₂₂O₂ Capemphosone, *p*-hydroxy, benzoate 1229¹
- C₁₅H₂₂O₂ Retenesulfonic acid, Me ester 513²
- C₁₅H₂₂O₂ Acetylhalcybe acid, thymyl ester P 1035³
- Phenol, 2-(ethoxymethoxy) 4(and 5) propenyl benzoate, 5156³
- C₁₅H₂₂O₂ Anhydriphyllodulonic acid dimethyl Me ester, 3270⁴
- Benzoic acid, 2 (3 4 + dimethoxyxylyl) 6 methoxy Me ester 5158³
- Butyphenone, 4 hydroxy 2 6 dimethoxy benzoate, 4250⁵
- α Coccin c acid 2 phenoxy di Et ester 3327¹
- C₁₅H₂₂O₂ Chalcone, 4 hydroxy 2 3 4 6 tetramethoxy 5430⁶
- Hydrocyanamic acid 3 (p (p carboxy ethyl)phenoxy) 4 methoxy 2983⁷
- Peotaceythrinal dibenzoate 1801⁸
- C₁₅H₂₂O₂ Mecoman, 2 (2 4,6 triketo 1 3 o trimethylcyclohexyl) 4519⁹
- Mecoman 2 (trimethoxyphenyl) 4519⁹
- C₁₅H₂₂O₂ + 2H₂O Chellol glucoside 310¹⁰
- C₁₅H₂₂BrN₂O₂ Homoveratramide N (3 bromo 4 methoxyphenethyl) 2 nitro- 4502¹¹
- C₁₅H₂₂ClN₂O₂ Chiten os chloride 954¹²
- C₁₅H₂₂IN₂ 1 Fibyl α (1 ethyl 2(1) pyridyl dens)quinaldinium iodide 4269¹³
- C₁₅H₂₂NO₂ Trimethylphenylammonium 1 naphthoate 4242¹⁴
- C₁₅H₂₂NO₂ Isovaleric acid α hydroxy α toluate 1818¹⁵
- Thebaine HCl 3004¹⁶
- α Toluamide α hydroxy isovalerate and valerate 1818¹⁵
- Valeramide α hydroxy α toluate 1818¹⁵
- C₁₅H₂₂NO₂ Dentox acid β (p acetamido phenoxy) Bu ester 2704¹⁷
- Carboxylic acid α hydroxy isobutyl ester α toluate 1818¹⁵
- Morphine α -6-acetyl HCl 3004¹⁶
- C₁₅H₂₂NO₂ Malonanilic acid α -methyl α veratryl 5671¹⁸
- C₁₅H₂₂NO₂ 1 1 2 Ethasetricarboxylic acid 1 phthalimido- tri Et ester 497¹⁹
- C₁₅H₂₂BrN₂O₂ Suanomene, bromo- 909²⁰
- C₁₅H₂₂BrN₂O₂ Methane bromo(bromomomercuthio)bis(3 methyl β phenethyl) 2413²¹
- C₁₅H₂₂BrN₂O₂ 3 Isopropylpropionic acid 5 (bromomethyl) 2 (p bromomethyl) 4 (p carboxyethyl) 3 methyl 2 pyridylmethylene] 4 methyl HBr 1257²²
- C₁₅H₂₂BrN₂O₂ 1,3 Cyclohexanedicarboxylic acid 4 6 dhenmo 6 keto 4 methyl 2 phenyl, di Et ester 3327¹
- C₁₅H₂₂INO₂ 1 β Anisyl 3 4 dihydro 6 7 dimethoxy 2 methylisocoumaroside 5676²³
- C₁₅H₂₂N₂ Compd m 174-7° from compd bs 318-20° 5428²⁴
- Desosycurrhonine 5428²⁵
- C₁₅H₂₂N₂O (See also Cinchonidine Cinchonine } Cinchotann, 1829²⁶
- C₁₅H₂₂N₂O₂ Cupene, 1829²⁷
- Hydrazine, dihenzoyl(α ethylpropyl) 2410²⁸
- Pentane, 2 4-dibenzamide, 4223²⁹
- C₁₅H₂₂N₂O₂ Acetanilide α , α (propylene dithio)bs- 1487³⁰
- C₁₅H₂₂N₂O₂ 3 Pyrrrolecarboxylic acid, 2 acetyl 3 methyl Et ester β dimethylammonbenzalde 3008³¹
- C₁₅H₂₂N₂O₂ Acetamide α benzamido N (3 4 dimethoxyphenethyl) 1530³²
- Chitenoe 954¹²
- Compd m 288-5° from benedine and perchlorate 4002³³
- Compd, does not m 315°, from bromidoe 4002³³
- Ethanol 2 (methyl(γ phenyl)propyl) amino] β nitrobenzoate HCl, 2709³⁴
- 1 Propanol 3 methylphenethylammon- β nitrobenzoate HCl 2709³⁴
- C₁₅H₂₂N₂O₂ Carbamate acid homopropenyl dithio- homopropenylamide salt, 4241³⁵
- C₁₅H₂₂N₂O₂ Benzoic acid β (nitrophenonyl) β diethylammonethyl ester HCl 2704³⁶
- 1 2 Propanediol 3 ethoxy, disaccharide 654³⁷
- C₁₅H₂₂N₂O₂ Benzenesulfonic acid β methoxy Me ester compd with antipyrone 3322¹
- C₁₅H₂₂N₂O₂ Nucine 3 carboxymethylketone 2 keto hydrate 705³⁸
- C₁₅H₂₂N₂O₂ Quaternarysulfonic acid 3004³⁹
- C₁₅H₂₂N₂O₂ Acridine 5 amino 7 (p diethyl aminoethyl) 2 nitro and di HCl P 1038⁴⁰
- C₁₅H₂₂N₂O₂ Acridine 5 amino(β diethyl aminoethoxy)nitro and di HCl P 1037⁴¹
- Urea + bis(β acetamidobenzyl) 5390⁴²
- C₁₅H₂₂N₂O₂ 2 Naphthylamine 1 2 3 4 tetrahydro 1 methoxy V N dimethyl picate 2139⁴³
- C₁₅H₂₂N₂O₂ Benzyl(carboxymethyl)dimethylammonium picrate Et ester 9F
- Propionic acid α (2 4 6 trimethoxyphenoxy) Et ester compd with PhNMe₂, 855⁴⁴
- C₁₅H₂₂O₂ 1 2 Cyclohexanediol, 3 methyl 1 2 diphenyl (?) 30⁴⁵
- Phenol, β hexyl benzoate 1220⁴⁶
- C₁₅H₂₂O₂ 2 Butanone 4 β anisyl 2 β methoxybenzyl (?) 691⁴⁷
- C₁₅H₂₂O₂ (See also Crocin)
- 2 Propanol 1 3 diethoxy acetate, 2692⁴⁸
- C₁₅H₂₂O₂ Propiophenone 4 hydroxy β (3 4 dimethoxyphenyl) 2 6-dimethoxy 5430⁴⁹
- C₁₅H₂₂O₂ Veratric acid 6 (2 4 5 trimethoxybenzyl), 2893⁵⁰
- C₁₅H₂₂O₂ Salicylic acid β xyloude Me ester, triacetate 5677⁵¹
- C₁₅H₂₂BrN₂O₂ Methene fenn erythropropyl and Et 4 (β bromovinyl) 5 formyl 3 methyl 2 pyrrolecarboxylate, HBe 1520⁵²
- C₁₅H₂₂BrO₂ 3 Glucopyranose, α 1 bromo 2 3 6 triacetyl 4 toluenesulfonyl, 689⁵³
- C₁₅H₂₂NO₂ Codide, iodo- methiodide, 3655⁵⁴
- C₁₅H₂₂NO₂ β Caprololide α -phenyl, 2135⁵⁵
- 1 Piperidinmethanol α , α diphenyl HCl, 4276⁵⁶
- C₁₅H₂₂NO₂ α Cresol, ethylpropyl, carbaulate 929⁵⁷
- Ethanol, 2 (methyl(γ phenyl)propyl)-ammonol, benzoate, -HCl, 2709³⁴
- 1 Propanol, 3 - methylphenethylammon-, benzoate, HCl, 2709³⁴
- Propiophenone, α - [(β hydroxy α

- 2 Pyrrolicarboxylic acid, 5 5 methylene bis[4 methyl 3 propyl] 3010^a
 Sinomenine, ammodihydro-₂ HCl, 2147^a
 —, dihydro-, oxime, 209^a
 C₁₁H₁₇N₂O₂ Dihydro deriv of acid from dihydroacotheline 110^a
 C₁₁H₁₇N₂O₃ 3 Pyrrolicarboxylic acid, 5 5 carbonyl bis[2 4 dimethyl, di Et ester hydrazone, 3599^a
 C₁₁H₁₇N₂O₃ 9 Flturylamine dodecahydru p crale 511^a
 C₁₁H₁₇O₂ Thelol, mono-Me ether 3458^a
 C₁₁H₁₇O₂ 1,1 3 Propanetracarboxylic acid methyl 2 phenyl tri Et ester 52^a
 C₁₁H₁₇O₂ Monotropitoulide 5677^a
 C₁₁H₁₇AO₃ Benzoyl α mercapto 5 α cyclohexylgold deriv 4220^a
 C₁₁H₁₇BrN₂O₂ Lysine N^a benzoyl N^a (α bromocaproyl) 2974^a
 Lysine N^a benzoyl N^a α (bromocaproyl) 2974^a
 C₁₁H₁₇NO Cinnamamide N methyl 1231^a
 C₁₁H₁₇NO₂ Dia N methylidiammonosyd hydrosinomenine dihydro 3002^a
 C₁₁H₁₇NO₂ Sinomenine tetrahydro- 359^a
 Sinomenol dihydro- 299^a
 C₁₁H₁₇N₂S Cyclohexanone 2 cyclohexyl 4 phenyl 3 thiosem carbazole 589^a
 C₁₁H₁₇N₂Meibane dicyclohexylphenyl 2713^a
 C₁₁H₁₇BrN₂ Isopyrrole 2 4 5 dimethyl 3 propyl 2 pyrrolmethylene 3 5 dimethyl 4 propyl dibromide HBr 3010^a
 C₁₁H₁₇NO₂ Sinomenine methyl methiodide 4551^a
 C₁₁H₁₇N₂ Carbazole 9 β diethylammonomethyl 1 2 3 4 tetrahydro 3 methyl P 5249^a
 Isopyrrole, 2 4 5 dimethyl 3 methyl 2 pyrrolmethylene 4 5 diethyl 3 methyl HBr 3356^a
 —, 2 (dimethylpropyl 2 pyrrolmethylene) dimethylpropyl and HBr 3010^a
 C₁₁H₁₇N₂O Carbazole 6 β diethylammonomethyl 1 2 3 4 tetrahydro 9 methyl P 5249^a
 C₁₁H₁₇N₂O₂ Isopyrrole 4 ethyl 2 4 ethyl 5 (methoxymethyl) 3 methyl 2 pyrrolmethylene 5 (methoxymethyl) 3 methyl, and HBr 3356^a
 C₁₁H₁₇N₂O Ketone bis(4 ethyl 3 5 dimethyl 2 pyrrol) hydrazone Ac de riv, 5899^a
 C₁₁H₁₇O₂ Undecylic acid α (carboxymethyl) phenyl P 970^a
 C₁₁H₁₇NO₂ Dodeceno p tolnide 5663^a
 C₁₁H₁₇N₂O [1 2 Bundan] 2 one dodecahydro semicarbazone 3333^a
 Semicarbazide 1 2 dicyclohexyl 4 phenyl 702^a
 C₁₁H₁₇N₂O₂ Lysine, N^a benzoyl N^a leucyl 2974^a
 Lysine, N^a benzoyl N^a norleucyl 2974^a
 C₁₁H₁₇N₂O₂ Tyrosine V (V leucylglycyl) ethyl ester, HCl 2742^a
 C₁₁H₁₇N₂S Semicarbazide, 1 2 dicyclohexyl 4 phenylthio- 702^a
 C₁₁H₁₇N₂O₂ Tripropylamine piculoxime 703^a
 C₁₁H₁₇N₂ Indole 3 amyl 1 β-diethylammonomethyl P 5249^a
 C₁₁H₁₇N₂O Urea, α cyclohexyl α (β methyl amyl) β phenyl, 1809^a
 C₁₁H₁₇N₂O₂ Undecylamide α (carlamyl methylphenyl) P 970^a
 C₁₁H₁₇O₂ Isomargaric acid 1,33^a
 C₁₁H₁₇O₂ 2 Indomalonic acid 2 acetonyl hexahydro di Et ester 3333^a
 C₁₁H₁₇INO₂ Sinomenine methyl methiodide 4551^a
 C₁₁H₁₇O₂ Isomargaric acid dihydro 1233^a
 Linolenic acid Me ester 297^a
 C₁₁H₁₇O₂ Clovenic acid di Et ester 3638^a
 Lichestic acid, 4266^a 4267^a
 Protolichestic acid 4266^a 4267^a
 C₁₁H₁₇NO₂ Sinomonidan acid methine di methyl HCl 4551^a
 C₁₁H₁₇ Methane tricyclohexyl 2713^a
 C₁₁H₁₇BrN₂O₂ Glycine V (V β α bromo isocaproylammoniovaleryl) [leucyl] 781^a
 Leucine N (N [A β bromo valeryl] leucyl) [leucyl] 781^a
 C₁₁H₁₇P Dibutylmethylphenylphosphonium iodide 5662^a
 C₁₁H₁₇O₂ Orthoacetic acid phenyl Et ester amyloxy 2135^a
 C₁₁H₁₇O₂ 1 Naphthalenebutylene acid decahydro α 2 dihydroxy α 2 5 5 βa pentamethyl 2) 3658^a
 Sefaric acid 3327^a
 C₁₁H₁₇BrCl₂N₂O₂ Bromobenzyl/ly diethyl amino β methoxypropyl) diethyl ammonium chloroplatinate 5993^a
 C₁₁H₁₇BrO₂ Stearic acid bromoketo, Me ester 71^a
 C₁₁H₁₇ClO₂ Stearic acid chloroketo- Me ester 11^a
 C₁₁H₁₇Cl₂N₂O₂ Benzyl/ly diethylammonio β methoxypropyl) diethyl ammonium chloroplatinate 5993^a
 C₁₁H₁₇N₂O₂ Pelargonic acid β, β urendoba 430^a
 C₁₁H₁₇N₂O₂ Glycine N (N [β (leucylammonio) valeryl] [leucyl] 781^a
 Leucine N (N [N (β ammoniovaleryl) leucyl] [leucyl] 781^a
 C₁₁H₁₇O₂ Oleic acid Me ester 3113^a
 C₁₁H₁₇O₂ Cephalone heptamethyl 83^a
 C₁₁H₁₇O₂ Ether allylicyl 634^a
 2 Hexadecanone 7 11, 15 trimethyl, 519^a
 C₁₁H₁₇O₂ Marganic acid Et ester 5392^a
 Stearic acid Me ester, 277^a
 C₁₁H₁₇O₂ Palmitic β mono 76^a
 C₁₁H₁₇O₂ Phlovanolic acid Me ester 4551^a
 C₁₁H₁₇ 612^a
 C₁₁H₁₇O₂ Chanyl alcohol, 684^a
 1 2 Propanediol 3 (cetyl) 684^a
 C₁₁H₁₇Cl₂O₂ 1 2 Deneanthrene 4 5 dicarboxylic anhydride 8 11 dichloro 7, 12 dihydro-7 12-diketo- P 3568^a
 C₁₁H₁₇Br₂HgN₂O₂ See *Mertenschrom*
 C₁₁H₁₇Br₂O₂ 3 10 Perylenequinone, dibromo 4573 compd with 56Cl₂ 4573^a
 per Xanthoxanthrene, 2, 8 dibromo, 1529^a
 C₁₁H₁₇Br₂O₂ See *Lam*
 C₁₁H₁₇Li₂Na₂O₂ Phenolphthalein, tetraiodo- di Na deriv, 2193^a 2197^a
 C₁₁H₁₇Li₂O₂ (See also *Lam* 1060- *Erjthrona*)
 Fluorescein triiodo- P 560^a
 C₁₁H₁₇N₂O₂ Benzimidazobenzosquinnoline 3 4 dicarboxylic anhydride, 7 keto- P 4412^a
 C₁₁H₁₇ClO₂ 2 Thioapthene-carboxylic acid 5 chloro 3 methyl 1, 1-carboxylates, anhydride 3167^a

- C₂₀H₂NOS Dibenzothioanthrene 3 nitrile keto- 5167¹
- C₂₀H₂NO 1,1 Benzanthrene 4 5 d carboxamide 7 12 dihydro 7 12 diketone- P 366³
- C₂₀H₂Br₂N₂O₂ Phthalaz 1 one 9 6 di bromo 4 nitro 3 phenyl picrate 4273
- C₂₀H₂Br OS 77 D benzophenothiazone di bromo 3335¹ 3339
- C₂₀H₂Br O₂ Benzene[3 10]anthracene 1 4 dione 9 3 dibromo 5 16 dihydro- 5160¹
- C₂₀H₂Br O₂ Fluoran a 7 dibromo 6 hydroxy 5414
- C₂₀H₂Br O₂ [1 1 Benaphthalene] 3 3 4 4 tetrol 2 2 7 7 tetra bromo- 946
- C₂₀H₂Cl₂N₂O₂ Phthalaz 1 one 2 6 di chloro 4 nitro 3 phenyl picrate 4273¹
- C₂₀H₂Cl₂O₂ Benzene[3 10]anthracene 1 4 dione 2 3 dichloro 5 10 dihydro- 5160¹
- C₂₀H₂Cl OS Benzot[2 2 5 4 8]thionaphthene 6 12 dione 3 9 dichloro 1 11 dimethyl 516¹
- C₂₀H₂Cl O₂ Fluorescein dichloro 2386¹ 2753¹
- C₂₀H₂Cl₂N₂O₂ 1 utadim chloride 3 10 (chloro formyl) (benzyl) 6-phenyl 106
- C₂₀H₂Cl₂O₂ I phenolphthalene tetrahydro- 1 4 dione 4032
- C₂₀H₂N₂O₂ Indole[3 2 1 6]acridine 6 nitrile 8-keto- 2703¹
- C₂₀H₂N₂O₂ Benzenesulfonazobenzanthracene 3 4 dicarboxylic acid 7 keto P 4412¹
- C₂₀H₂N₂O₂ Fluoran dihydroxy nitro 941¹ Fluorescein 2 7-dinitro- 941¹
- C₂₀H₂N₂O₂ I benzene[2 3 4]pseudonaphthalene [3 2-6]imidazol 1st-one 3313¹
- C₂₀H₂N₂O₂ See Urease
- C₂₀H₂N₂O₂ Dnaphthalene dione P 9¹ 3¹ 3 10 Perylenequinone compounds with salts 4574¹
- C₂₀H₂N₂O₂ Dibenzothioanthrenedione, 5165¹, 5166¹
- Dnaphthol[2 1 8 2 3 4]thiophene 8 13 dione 5167¹
- C₂₀H₂O₂ 1,2 Benzanthrene 4,5 dicarboxylic acid 7,12 dihydro 7 12 diketone- P 366³
- C₂₀H₂O₂ Melilute trianhydride compd with veratrole 97¹
- C₂₀H₂BrCl O₂ Hydroquinone 3 bromo 2 8-dichloro- nitrobenzoate 4535¹
- C₂₀H₂BrOS 77¹ D benzophenothiazone, bromo- 3339¹
- C₂₀H₂Br O₂ Fluorescein, bromo- P 4893¹
- C₂₀H₂ClOS D benzothioanthracenone chloromethyl-, 5166¹
- C₂₀H₂ClO₂ Anthraquinone chlorophenyl P 5220¹ 4
- C₂₀H₂ClO₂ 2-Thioanthiphenecarboxylic acid 5-chloro 3 methyl 1,1 carbonylthio- 5167¹
- C₂₀H₂NO Benzanthracenanthracenone P 31¹ 6¹
- C₂₀H₂NO₂ 8 Indole[3 2 1 6]acridine 6 carboxylic acid, 8 keto- 2994¹
- C₂₀H₂NO₂ Fluorenone 2 or 5¹ teneoylure-, 3153¹
- C₂₀H₂NO₂ Compd decomps about 123° from pyromellitic anhydride and quinaldine, 38 1¹
- Fluoran, 8-hydroxy 7 nitro-, 5414¹
- C₂₀H₂NO₂ Fluorescein, nitro-, 2993¹
- C₂₀H₂N₂O₂ 6(2) meso Anthrapicrazolone, 2-(anthrophenyl)-, P 5576¹
- C₂₀H₂ See Perylene
- C₂₀H₂Br₂O₂ 1,1' Bz 2 naphthol, 6 6 di bromo-, 1529¹
- 2 Naphthol, 6 - bromo - 1 - (6 bromo-2 naphthoxy), 5674¹
- C₂₀H₂Br₂O₂ [2,2' Benaphthalene] 1,1',3,3 tetrol 4,4' dibromo-, 945¹
- C₂₀H₂Br₂O₂ 2 Naphthol, 1,1' - sulfonates- (6 bromo-, 5674¹
- C₂₀H₂Br₂N₂O₂ 2 7 Naphthalenedisulfonic acid, 5 amino 6 8¹ dibromo 1,4 dihydro 1 4 diketone, compd with 4 amino 1,3¹ dibromo 5,8 dihydroxy 2,7 naphthalenedisulfonic acid tetrakisalt 1517¹
- C₂₀H₂Cl₂N₂O₂ Benzenesulfonic acid, 2 4 bis (2,4-dichlorobenzamido), P 1686¹
- C₂₀H₂Cl₂O₂ Ether, a chloro 5,8 diphenyl vinyl 2,4,6-trichlorophenyl, 931¹
- C₂₀H₂N₂ 77 Dibenzophenazone P 2438¹, P 3360¹
- C₂₀H₂N₂O₂ Cinchonine anhydride 3000
- C₂₀H₂N₂O₂ 3, Disulfide, bis(2 nitro 1 naphthyl) 2715¹
- C₂₀H₂N₂O₂ 2(1) Naphthalene, 1,1' thio- bis(1 nitro-, 4207¹
- C₂₀H₂N₂O₂ 2(1) Naphthalene, 1,1' di thio[1 nitro-, 4207¹
- C₂₀H₂N₂O₂ Imidazo[4,5 8]phenazine 2 or benzene acid, and salts, 3343¹
- C₂₀H₂O₂ Dnaphthofuran 4257¹, 4268¹
- C₂₀H₂O₂ 77 D benzophenothiazone, 3338¹ D benzothioanthracenone methyl-, 5166¹
- C₂₀H₂O₂ Benzene[3 10]anthracene 1 4 dione 5,10-dihydro-, 5159¹
- Dibenzo[a,h]xanthene 13-ol, 3086¹
- C₂₀H₂O₂ 1 2 3,3 Naphthopyrone, 3 benzoyl-, 2145
- C₂₀H₂O₂ 2 Naphthone acid 3 (1 thionaphthyl)carboxyl 5159¹
- 2 8 Naphthothiophenecarboxylic acid, 1 benzoyl-, 5165¹
- 3 Thiophanthrenecarboxylic acid, 2 - benzoyl-, 5166¹
- C₂₀H₂O₂ Benzot[1,2 8,5 4 - 8]thionaphthene-6 12-dione, 3 ethoxy-, 5167¹
- C₂₀H₂O₂ 11 8 Benzoanthracenecarboxylic acid, 12 keto-, 3938¹
- 1(2) 8 Naphthofuranone, 2 - piperonylurea-, 3340¹
- phenyl 5) Phthaloyl 2 naphthol, acetate, 4546¹
- C₂₀H₂O₂ 1,3 Naphthalenedithiodisulfonic acid, 1,3-naphthalene ester, 3340¹
- C₂₀H₂O₂ (See also Fluorescein) Fluoran 4 hydroxy, 941¹
- C₂₀H₂O₂ Benzot[8]thioanthracene 5,11 dione 7 10-dihydroxy, diacetate 5166¹
- C₂₀H₂O₂ 1 4 Anthracene carboxylic acid, 9 10 dihydroxy mono 7 - lactone, anhydride with AcOH, acetate 698¹
- Phenanthro[3 6 7]uran 4 11 dicarboxylic acid, 1 3 dihydro 2 3 diketo-, di lactate ester 333¹
- Pseudonaphthanthracene - 1 2 dicarboxylic acid lactone diacetate, 949¹
- C₂₀H₂O₂ Thiophene acid, 291¹
- C₂₀H₂ 3 Dibenzot[36]thioanthracene 5166¹
- C₂₀H₂ 3, Di 1,3 naphthalenedisulfide, 3340¹

- $C_{20}H_{13}BrO$ Anthrone, 10-bromo-2 phenyl, 4546²
Xanthene, 9 (α -bromobenzal) 1238¹
- $C_{20}H_{19}ClO$ Fluorene, 9 (chlorophenoxy)methyl 931¹
- $C_{20}H_{19}ClO_2$ 8-Methoxy α -naphthofuro[3,2- β]benzopyrylium chloride, $FeCl_3$ compd, 3340¹
- $C_{20}H_{19}ClO_2S$ Fluorenesulfonyl chloride, benzoyl, 5158¹
- $C_{20}H_{19}ClS$ Fluorene, 9 (chloro[phenyl]mercaptol methyl ester) 931¹
- $C_{20}H_{19}ClS_2$ Spiro[ethylene sulfide α 9 fluorene] β chloro β (phenylmercaptol) 931¹
- $C_{20}H_{19}Cl_2FeO_2$ 8-Methoxy α -naphthofuro[3,2- β]benzopyrylium chloride $FeCl_3$ compd 3340¹
- $C_{20}H_{19}NO_2$ Anthraquinone 2 (amino[phenyl]) P 714¹ P 5295¹
Diphenamide N phenyl 2418²
- $C_{20}H_{19}NO_2$ Ketone niro 2 fluoryl phenyl 3158¹
- $C_{20}H_{19}NO_3$ 2(1) Naphthalenone 1 (2 naphthylmercaptol) niro 4257²
- $C_{20}H_{19}NO_3$ Quinone 5 amino- 3846¹
- $C_{20}H_{19}NO_3S$ 2(1) Naphthalenone 1 (2 hydroxy 1 naphthylmercaptol) 1 niro-4257²
- $C_{20}H_{19}NO_4$ Lutidic acid 3 (n-carboxyphenyl) 6 phenyl 100³
Phenolphthalein 3 niro- 2995²
- $C_{20}H_{19}N_2O_2$ Anthracene compd with 1,3,5-trimethylbenzene 1825¹
- $C_{20}H_{19}N_2O_2$ Anthracene picrate 1816¹
Phenanthrene picrate 1816¹
- $C_{20}H_{19}N_2O_3S$ 2 Naphthol 4 sulfonic acid 1 (1 hydroxy 2 naphthylazo) 6 niro Na salt 417¹
- $C_{20}H_{19}$ Dinaphthyl 914¹
- $C_{20}H_{19}BrN_2O_2$ Benzimidazole 1 β bromo anilino-3-methyl picrate 104¹
Benzothiazine 1 (β bromo N methyl amino) picrate 104¹
- $C_{20}H_{19}Br_2$ Ethylene 1,1 dibromo 2 phenyl 2 (β phenylphenyl) 1516¹
- $C_{20}H_{19}Br_2O_2$ 3,6 Xanthenediol 9 methyl 9 phenyl dibromo 3644¹
- $C_{20}H_{19}Br_2O_2$ Quinone 2,5 di β anisyl 3,8 dibromo- 3635¹
- $C_{20}H_{19}Br_2Sn$ Stannane dihydromethyl 2 naphthyl 3978¹
- $C_{20}H_{19}Br_2O$ Xanthene 9 bromo 9 (α bromo-phenyl) dihydromethyl 1235¹
- $C_{20}H_{19}ClNO_3S$ Benzanilide 5 chloro 2 mercapto-, benzoate 931¹
- $C_{20}H_{19}Cl_2O_2$ Cresol dichloro α phenyl benzoate 3635¹
- $C_{20}H_{19}Cl_2Sn$ Stannane, dichlorodimaphthyl 3978¹
- $C_{20}H_{19}Hg$ Mercury dinaphthyl 3975²
- $C_{20}H_{19}N_2$ 3,9 Perylenediamine P 523² P 1845¹
Quinoxaline 2,3-diphenyl, 3001¹
- $C_{20}H_{19}N_2O_2$ 3 Indole[3,2- β]naphthalene 8 one 6-methylamino- 2998¹
- $C_{20}H_{19}N_2O_2$ [Δ^1 Et Δ^2 pyrroline] 4,4 dione, 2,2-diphenyl 1828²
- $C_{20}H_{19}N_2O_3S$ Ketone hydroxy(4 phenyl 2 thiazyl)methyl 4 phenyl 2 thiazyl, 2722¹
- $C_{20}H_{19}N_2O_4$ (See also Rhodamine)
3,5 Pyrazolinedione, 4 (2 furan) 1,2 diphenyl-, 2145¹
- $C_{20}H_{19}N_2O_5S$ 2 Naphthol 3 sulfonic acid 1 naphthylazo-, Na salt, 2128²
- $C_{20}H_{19}N_2O_5$ Fluorac diammonodihydroxy, 941¹
Fluorescein, 2,7 diamino- 941¹
- $C_{20}H_{19}N_2O_5$ Benzoalcohol, 3,5 dinitrobenzoate, 687¹
- $C_{20}H_{19}N_2O_5$ Quinone 2 acetamido 3,6 di amino-5-nitro-, 2130¹
- $C_{20}H_{19}O$ Ketone 2 fluoryl phenyl 5157¹
Xanthene 9 benzal 1237¹
- $C_{20}H_{19}OS$ Thionaphthene, 1 phenoxy 2 phenyl 4264¹
- $C_{20}H_{19}O_2$ Benzene[5,10]anthracene 1,4 diol 5,10-dihydro- 5159¹
Benzene[5,10]anthracene 1,4 dione, 4a,5,10,10a-tetrahydro- 5160¹
Benzophenol 3085¹ 4258¹
- $C_{20}H_{19}O_3S$ 2 Naphthol 1 (1 mercapto 2 naphthoxy) 3330¹
2 Naphthol 1,1 thiol- 3330¹
- $C_{20}H_{19}O_4$ Benzoic acid α -(β phenylbenzoyl) P 5299¹
1,2 Chrysenedione 8 ethoxy 1818¹
Ethyl ether m 163² of compd m 198² 5416²
- $C_{20}H_{19}O_4$ (See also Phenolphthalein)
1,2 Benzanthrene 7,12 dione 8,11 dimethoxy 4878¹
Benzoic acid phenoxybenzoyl 2140¹ Al deris P 714¹
[1,1 Benaphthalene] 3,3,4,4 tetrol 1241¹
Naphthalenequinone 1,4-dimethoxy 5162¹
1,2 β Naphthofuranone 2 van Hal 3340
- $C_{20}H_{19}O_5S$ Fluorenesulfonic acid benzoyl and Na salt 5158¹
2 Naphthol 1,1 sulfonyl 5673¹
- $C_{20}H_{19}O_6$ Phlorbenzophenone 4 benzoate 4240¹
- $C_{20}H_{19}O_6$ Diacetate m 298-300², of compd m 337 8² 4870¹
- $C_{20}H_{19}S_2$ 2 Naphthyl disulfide 2128¹
Thionaphthene 2 phenyl 1 phenylmercapto- 4264¹
- $C_{20}H_{19}N_2O_2$ Phenanthrene 1,6 dihydro 1 hydroxy acetic acid picrate 100¹
- $C_{20}H_{19}BO$ Boric acid di- β naphthyl 928¹
- $C_{20}H_{19}Br$ Ethylene 2 bromo 1 phenyl 1 (β phenylphenyl) 1516¹
- $C_{20}H_{19}BrO$ Acetophenone α bromo α di phenyl 1833¹
- $C_{20}H_{19}BrO_2$ Nicotinic 2 (bromonaphthyl) 4519¹
- $C_{20}H_{19}ClO$ Fluorene 9 β anisyl 9 chloro- 4678¹
- $C_{20}H_{19}ClO_2S$ Ethylene sulfide α chloro α phenoxy β , β diphenyl 4264¹
- $C_{20}H_{19}ClS_2$ Ethylene sulfide α chloro β , β diphenyl- α phenylmercapto 4264¹
- $C_{20}H_{19}ClNO$ Benzamide acid N n 10yl 2,4 dichlorophenyl ester, 2147¹
- $C_{20}H_{19}N$ Acetaminide triphenyl 942¹ disulfate 3900¹
2 Anthranilic acid N phenyl, 2996¹
- $C_{20}H_{19}NO$ Acetonitrile triphenyl, N oxide 942¹
Acetophenone α phenyl α phenylamino-, 4246¹
Ketone amino 2-fluoryl phenyl and HCl, 5159¹
2 Naphthol 6-naphthylamino-, P 5041¹
- $C_{20}H_{19}NO_2$ Diphenamide acid, 2418¹
Oxamide, 3,3 bis(β -hydroxyphenyl), 4264¹

- [illegible]

- C₂₀H₁₉N₅O₁ Naphthalene, 7 - isopropenyl 1 methyl-, pterals, 2988¹
- C₂₀H₁₉N₅O₁ Di *p* tolunesulfonamide, N (2 4-dinitrophenyl), 2727¹
- C₂₀H₁₉N₅O₁ Thiazole 4 4 imino methylene bis(2 phenyl) acid *dp* HCl 902²
- C₂₀H₁₉N₅O₁ Benzaldehyde methyl[(*p* + nitrophenyl)phenyl]hydrazone 92³
- C₂₀H₁₉N₅O₂ 1,3(2 4) Isoquinolinedione, 4 (antipyrilazo) 3648⁴
- C₂₀H₁₉N₅O₂ Alizarin, glucosyl Na deriv, 3992⁵
- Chrysazin glucosyl Na deriv 3992⁵
- C₂₀H₁₉N₅O₂ Purgurin 2 glucosyl, Na deriv, 3992⁵
- C₂₀H₁₉N₅O₂ Quinazolin 2 glucosyl, Na deriv 3992⁵
- C₂₀H₁₉N₅O₂ P Phosphoric acid, 2 phenyl 2 (*p* phenylphenyl) 4233⁶
- C₂₀H₁₉N₅O₂ Elbanc triphenyl 5830
- 1 3 5 7 Gelatetene 4 8-diphenyl 1719⁷
- C₂₀H₁₉N₅O₂ Di- α - α -pyridylargentic by frozen sulfate 1753⁸
- C₂₀H₁₉N₅O₂ 2 r Triammonocaptan 4 amino-6 beneyl Cudarv 2739⁹
- C₂₀H₁₉N₅O₂ Cinchophen 4 hydrazoy 5 nido 5 isopropyl 2 methyl 4854¹⁰
- C₂₀H₁₉N₅O₂ Benzaldehyde beneylphenylhydrazone 92¹¹
- Quinoline 1 2 3, 4 tetrahydro 2 3 diphenyl 957
- C₂₀H₁₉N₅O₂ Isoindolizine 1 1-dimethyl 294¹²
- C₂₀H₁₉N₅O₂ Glycine, 12 phenyl-4 quinazolin beneyl, Et ester 3000¹³
- Quinolone 4 (4 acetylamine) 8 methoxy 2 phenyl 4884¹⁴
- C₂₀H₁₉N₅O₂ 2 Naphthone acid 3 methoxy 4 hydrazoy 2 methoxybenzylhydrazide 2138¹⁵
- C₂₀H₁₉N₅O₂ Retene acetylaminato- 5424¹⁶
- C₂₀H₁₉N₅O₂ Anthraquinone 1 4 diacetamido 5 8-dimethoxy 3648¹⁷
- C₂₀H₁₉N₅O₂ Acetophenone *p* phenylazophenylhydrazone and HCl 2131¹⁸
- Benzaldehyde methyl(*p* phenylazophenyl)hydrazone 5182¹⁹
- Benzimidazole 2 (a (o amuamino) a tolyl) 702²⁰
- C₂₀H₁₉N₅O₂ Triazene 3 benzyl 3 (benzyl) 1 (*p* nitrophenyl) 5409²¹
- C₂₀H₁₉N₅O₂ *p* Dihydroxosulfone acid 3 3 bet(4,5 dihydro 3 keto 3 methyl 1 pyrazolyl) 4872²²
- C₂₀H₁₉N₅O₂ 2(3) Thiazolone 4 *p* tolyl azine 1332²³
- C₂₀H₁₉N₅O₂ Carbanol, amylodiphenyl 99²⁴
- Isoquinoline 2 6 di *p* tolyl 3410²⁵
- Isobutyrylphenone β 2 isyl *p* phenyl 3424²⁶
- 3 5-Octadec-2,7-diol 2 7-diphenyl 74²⁷
- C₂₀H₁₉N₅O₂ Triphenylhyd acetate 5407²⁸
- C₂₀H₁₉N₅O₂ Ratanquinone acetyl 5424²⁹
- C₂₀H₁₉N₅O₂ 2,4 Xylanol α -phenyl benzene sulfonate 3639³⁰
- C₂₀H₁₉N₅O₂ Bauxan, *p* bis(*p* methoxyphenoxy), 1816³¹
- 1,2 Cyclohexanedicarboxylic acid, 3 6-di phenyl, 1514³²
- Ethano[5,10]anthracene 11 12 dicarboxylic acid, 5,10-dihydro-, di Me ester 3646³³
- Hydroquinone, 2 5-di *p* toloxy, 4537³⁴
- C₂₀H₁₉N₅O₂ *o*-Varatric acid, 6 (2 hydroxy 1 naphthylmethyl), 4519³⁵
- C₂₀H₁₉O₂ 9,9,10(10) Anthracenetauxarboxylic acid *tri* Maxata 1518³⁶
- 4 Chromanone 3 (3 hydroxyanisal) 7 methoxy acetate 1534³⁷
- 7 hydroxy 3 venatal, Maxata 1534³⁸
- C₂₀H₁₉O₂ 1-hydroxyanthracene 3978³⁹
- C₂₀H₁₉O₂ Anthraquinone 1 glucosyl 4262⁴⁰
- 2 2 3 4 Biphenyltetraoxarboxylic acid, tatar Me ester 2136⁴¹
- C₂₀H₁₉BrO₂ 2 x 1 4 Cyclohexanedicarboxylic acid 2 14 (ynno 2 mesyl) 3 5 diacet 5 methyl 5410⁴²
- C₂₀H₁₉BrFb Numbana bromophenylid *o*-tolyl 2688⁴³
- C₂₀H₁₉BrO₂ *p* Toluidroquinone 3 6-di amno-5-(4 bromo-2 mesyl) diacetate 5410⁴⁴
- C₂₀H₁₉BrO₂ Hydratropia acid β 5 (4 bromo- β to bromo 2 4 dimethoxybenzyl) 2 4 dimethoxy 4866⁴⁵
- C₂₀H₁₉N₅O₂ Dibenzylamine V phenyl P 522⁴⁶
- C₂₀H₁₉N₅O₂ Phagel 4 amino-7 6 di-*o*-tolyl 5410⁴⁷
- C₂₀H₁₉N₅O₂ Cinchophen Bu and isobutyl esters P 5113⁴⁸
- Cinchophen 6 methyl Tr acyl P 5513⁴⁹
- Phenethylalcohol α methyl 1 naphthalene-carbamate 1816⁵⁰
- C₂₀H₁₉N₅O₂ Cinchophen 6 ethoxy Et ester 4884⁵¹
- Cinchophen 4 hydroxy 5 isopropyl 2 methyl 4884⁵²
- 6 methoxy isopropyl and Tr ester 4884⁵³
- 2 Naphthol 1 (o dimethylaminopropenyl), 2713⁵⁴
- Naphtho 3 5 xylide hydroxy 4 methoxy, 2421⁵⁵
- C₂₀H₁₉N₅O₂ Indene[3 2 β]quinoline 1 2, 7 8 tetramethoxy HCl 1203⁵⁶
- 4 1) Quinolone 1 acetyl 2 3 dihydro-3 venatal 106⁵⁷
- C₂₀H₁₉N₅O₂ Chel donane 1251⁵⁸ 4003⁵⁹ 4004⁶⁰
- Protopone 1231⁶¹
- 3 Quinol naphthoic acid 2 *p*-anlyl 1 4 dihydro-4 keto 6 methoxy, Et ester, 1830⁶²
- C₂₀H₁₉N₅O₂ Hydratriminium salt m 334⁶³ 2180⁶⁴
- C₂₀H₁₉N₅O₂ Ethanol 1 2 bis 3 4 methylacetyl oxyphenyl 2 piperoylidenamino-di Ac deriv 1240⁶⁵
- 1 Iadanone 4 5 dimethoxy 2 (6 nitro venatal) 1203⁶⁶
- C₂₀H₁₉N₅O₂ Anthraquinone 9 imonium salt 1 hydroxy 8 glucosyl 4261⁶⁷
- C₂₀H₁₉N₅O₂ Anthraquinone-9 imonium salt, di hydroxyglucosyl 4261⁶⁸
- C₂₀H₁₉N₅O₂ Anthraquinone 9 imonium salt, 1 5 8-trihydroxy 2 glucosyl 4261⁶⁹
- C₂₀H₁₉N₅Et Chenetramine A N₁ N⁺ triphenyl, 2112⁷⁰
- C₂₀H₁₉N₅O₂ 1 Naphthylamine N (3 4 di methoxyphenethyl) 2 4 isoto, 5408⁷¹
- C₂₀H₁₉N₅O₂ Naphthalene butyl, pterals, 1816⁷²
- Naphthalene 2 tri butyl, pterate 9413⁷³
- 6 ethyl 4 4-dimethyl, pterate, 961⁷⁴
- tetramethyl, pterate 2150⁷⁵
- C₂₀H₁₉N₅O₂ Naphthalene 6 ethyl 1 4 dimethyl, styphenata, 961⁷⁶
- C₂₀H₁₉N₅O₂ 2 9 Pyridindole, 3,4-dihydro 1 isopropyl pterals, 301⁷⁷
- 2,9-Pyridindole, 3,4-dihydro 1 propyl pterate 301⁷⁸
- 1 ethyl 3,4-dihydro-9-methyl₂ pterals 301⁷⁹

- C₂₀H₁₅O₅P Ethaerophosphoric acid 2 phenyl 2 (p-phenylphenyl), 4239^a
- C₂₀H₁₅BrNO Chalcone α bromo-β 1 piperidyl 4248
- C₂₀H₁₅CaF₃N₃Si 5562^a
- C₂₀H₁₅CdF₃N₃Si 5562^a
- C₂₀H₁₅ClF₃N₃ Quinaldine 3-chloro-α-dimethylamino-6-iodo-4 β-iodoamino- 2430^a
- C₂₀H₁₅Cl CoN₃ 5567^a
- C₂₀H₁₅Cl₂N₃ 5567^a
- C₂₀H₁₅Cl₂N₃ Anisic acid 3 3 (β β-dichloro-ethylidene)bis di Me ester 5412^a
- C₂₀H₁₅Cl₂MnN₃ 5569^a
- C₂₀H₁₅CuF₃N₃Si 5562^a
- C₂₀H₁₅Cu₂N₃ Tetraepyrindium iodide 652^a
- C₂₀H₁₅F₃N₃Si 5562^a
- C₂₀H₁₅F₃N₃SiZn 5562^a
- C₂₀H₁₅IN Dibenzyl 1 methylpyridinium iodide 5429^a
- C₂₀H₁₅NO, Coptisine tetrahydro-(?) methoxide 516^a
- C₂₀H₁₅N₃ 1 Methylpyridinium iodide compd with p-toluidine 5426^a
- C₂₀H₁₅N₃O Benamide 1 ethyl 1 (β 2 quinolyl ethyl) 42^a
- C₂₀H₁₅N₃O₂ 3 3 Broxazole 1 1-diethyl 3 hydroxy 294^a
- Phthalimide 1 (α-aminoethyl)benzylhydro- Ac deriv 701^a
- 4 Quinonesulphonic acid, 6 ethoxy 2 phenyl Et ester 4554^a
- C₂₀H₁₅N₃O₂ 2 α-Naphthyl orange butyl 2993^a
- C₂₀H₁₅N₃O₂ Phthalidesulphonamide, dimethyl, 6911^a
- C₂₀H₁₅N₃O₂ + 2H₂O Aniline salt in 300° of acid from erythrol 114
- C₂₀H₁₅N₃O₂ o-Toluidide α-amino-α (α-amino-aniline) 702^a
- C₂₀H₁₅N₃O₂ Quinine acid p-dimethylamino-benzylidene 953^a
- C₂₀H₁₅N₃O₂ 2 3 5 6-Tetrahydro-8,9-dimethoxy 1 benzolpyrroloquinone picrate 1531^a
- C₂₀H₁₅N₃O₂ Retene acetyl 5124^a
- C₂₀H₁₅O₂ Ratenecarboxylic acid Na ester 513^a
- Retenequinone, ethyl 5424^a
- Retenol, acetate, 513^a
- C₂₀H₁₅O₂ Bental, compd with cyclohexanone, 2992^a
- Δ¹-3-Heptanone 4 (m-hydroxybenzyl) 1 (m-hydroxyphenyl), 2132^a
- C₂₀H₁₅O₂ Cyclobutane, 1,2 dimethyl 3,4 bis(2,6 methyleneoxyphenyl), 4277^a
- Teualliac acid, mono-Et ester 1009^a
- C₂₀H₁₅O₂ Styraetol, dibenzyl, 5149^a
- C₂₀H₁₅O₂ 4-Chromanone, 3 (3 hydroxy-4 methoxybenzyl)-7 methoxy, acetate, 1534^a
- Cubebene, 427^a
- C₂₀H₁₅O₂ Kolactechon, 173^a
- C₂₀H₁₅Si Silicane, ethylphenyl 4536^a
- C₂₀H₁₅Br 2 Hexane 1 hexeno-5 5-dimethyl 1 1 diphenyl, 487^a
- C₂₀H₁₅BrN₃O₂ Isopyrrole, 2-[5-bromo-3-(β β-dimethoxyethyl)]-4 methyl 3 pyrrol methylene-4-(β β-dimethoxyethyl) 3 5-dimethyl, HBr, 3018^a
- C₂₀H₁₅BrO₂ 2 5-Toluenediacetic acid, 4 (4 bromo-2-methyl) 3 6-dihydroxy 5410^a
- C₂₀H₁₅N₃O₂ Imidaz[4 3-b]isoquinoline 5 6-dihydro-8 9-dimethoxy 3 phenyl methoxide, 1535^a
- C₂₀H₁₅NO Acridine, 10-benzyl 1 2 3 4 4a 5,10,10a-octahydro-, 5673^a
- Anthrone, 2 methyl 10-(1 piperidyl), 4546^a
- Benamide, V (1,2,3,4,4a,9a hexahydro-9-thioxyl), 511^a
- Camphor, 3 (1 naphthylimino), 5627^a
- Chalcone, α-1 piperidyl, 3009^a
- Retene, acetyl, oxime, 5424^a
- Thymol, 6-(4 methyl-3-quinolyl), 4854^a
- C₂₀H₁₅NO₂ 2 Naphthal, 1 (α-dimethylamino-β-methoxybenzyl), 2710^a
- C₂₀H₁₅NO₂ Homocrotoline 2731^a
- Trilobol(methyl)methane, methyl, and HCl, 2731^a
- Truxillamic acid, Et ester, 1009^a
- C₂₀H₁₅NO₂ (See also Papaverine)
- Canadine, 3345^a 4003^a
- Lauropakine, dimethyl, 3633^a
- 4(1) Quinolone 1 acetyl 2,3-dihydro-3 versatyl, 109^a
- C₂₀H₁₅NO₂ 4 Chromanone, 3-(3 hydroxy-4 methoxybenzyl) 7 methoxy, oxime, acetate, 1534^a
- C₂₀H₁₅NO₂ 5 Papaverinesulfonic acid, 1032^a
- C₂₀H₁₅NO₂ Anthraquinone-9-iminoium salt by drate, 1 hydroxy 2 glucosyl, 4261^a
- C₂₀H₁₅NO₂ Ethanol, 2 amino-1 2 bis(3,4 methyl endoxyphehyl), acid tartrate 1240^a
- C₂₀H₁₅P Pentaphosphine, dimethyltriphenyl, 2702^a
- C₂₀H₁₅ Retene, ethyl, 5424^a
- C₂₀H₁₅Br₂O₂ 3 Heptanol, 1 2, 6 7-tetrabromo-α-methyl 1 7-diphenyl (?), 923^a
- 3 Hexanol, 1,2,5 6-tetrabromo-3 4-dimethyl 1 6-diphenyl (?), 923^a
- C₂₀H₁₅ClNO₂ Trilobine, methochloride 2731^a
- C₂₀H₁₅NO₂ Laureline, methoxide, 3600^a
- Pukateone, methyl, methoxide, 3600^a
- Trilobine, methoxide, 2731^a
- Trilobol(methyl), methoxide 2731^a
- C₂₀H₁₅N₃ 1 Methylpyridinium iodide, compd with p-toluidine amine 5426^a
- C₂₀H₁₅N₃ Quinolone, 4 amino 3 ethyl 2 propyl, and HCl, 334^a
- C₂₀H₁₅NO₂ See Diocaine Galsamine
- C₂₀H₁₅NO₂ 1 2 Cyclohexanediol, diacetylates, 921^a
- Lysine, V, N⁴-dibenzyl, 1534^a
- 4(1)-Quinolone 1 acetyl 2,3-dihydro-3 versatyl, oxime, 109^a
- C₂₀H₁₅NO₂ Nacetyl, bis(α-tolylhydrazones), 1524^a
- C₂₀H₁₅NO₂ Acridine 5-amino 2 nitro-7 (β 1 piperidylethoxy), and di HCl, P 1038^a
- Oxazone, decomps 200° (cr) from tetra acetylhydroxyglacal and Ph⁴N⁺H⁻, 4239^a
- C₂₀H₁₅N₃O₂ Arginine dibenzyl, 1034^a
- Succinamide, p p-diacetamide-, 1504^a
- C₂₀H₁₅N₃O₂ Benzolpyrroloquinone, 1,2 3 5 6,10b hexahydro 8 9 dimethoxy, picrate, 1531^a
- C₂₀H₁₅O₂ 3 3 Heptadienol, 5-methyl 1,7-di phenyl (?), 903^a
- 3 3 3 Hexadienol, 3,4 dimethyl-1 6-diphenyl (?) 923^a
- 1 Hexanol-1 α 5 5-dimethyl 1,1 diphenyl, 487^a
- C₂₀H₁₅O₂ Acetoacetic acid, α,α-dibenzyl, Et ester 52^a
- Enanthophenone, p hydroxy, benzoate, 1229^a
- 3 Heptanol 1 2 6 7-diepoxy 5-methyl 1,7 diphenyl (?) 903^a

- 3 Hexanol, 1,2,5,6-diepoxy 3 4 dimethyl
1 6-diphenyl (?), 923⁴
- C₂₀H₂₅O₃S 2 Naphthal 1 2 3 4 tetrahydro- sul
fite, 3964⁴
- C₂₀H₂₅O₄ Adipic acid β γ diphenyl di Me
ester, 98³
p Toluidydroquinone, 5 (2-methyl) diac
late, 5410⁴
- C₂₀H₂₅O₄ Anthrone 10-ethyl 2,3 6,7 tetra
methoxy, 4538³
Isophthalic acid 4 methoxy 6-methyl 2
phenyl, di Et ester 3327³
Rhammitol, dibenzylidene- 84³
- C₂₀H₂₅O₄ Acetic acid, α = (p biphenylenedioxy)
bis, di Et ester 4233³
1,8 Octanedione, 1 8 bis(2 4 dihydroxy
phenyl) P 273³
- C₂₀H₂₅O₄ Acid m 157³ from (dimethoxy
phenyl)succinic anhydride and m C₁₁H₁₅
(OMe) 4866³
Flavanone 1 4 5 7 penta-methoxy
3979³
Hydratropic acid β (2 4 dimethoxybenzoyl)
2 4 dimethoxy, 4846³
- C₂₀H₂₅O₄ Acetyl deriv m 175³ of acid m
202³, 1499⁴
- C₂₀H₂₅MoN₂S 3587³
- C₂₀H₂₅NO Compbor 3 (1 naphthylamino)
3350³ 3627³
- Propiophenone β phenyl n 1 piperidyl, 91³
3000³ 3641³, 42 6
- C₂₀H₂₅NO₂ 1 Cyclopentanecarboxylic acid, 3 methyl
1 (2 capthylcarbamylmethyl) 3319³
Spiro[cyclopropane 1 2 indan] 2 3 di
carbamate hexahydro 2 methoxy
N phenyl, 3330³
Trilobosemethylmethane dihydro- 2731³
- C₂₀H₂₅NO₂ 3 Trimethyl 2 naphthylammonium p
toluenesulfonate 4045³
- C₂₀H₂₅NO₂ Trilobosemethylmethane 2731³
- C₂₀H₂₅NO₂ Ethanol 2 amino 1 2 di p anisyl
di Et deriv, 1240³
- C₂₀H₂₅N₂O₂ Dimethotamic acid 4 (3 5-dinitro p
tolyl) 1,4 dihydro 2 6 dimethyl
di Et ester 0426³ 0427³
- C₂₀H₂₅BrNO 1 Benzyl 1 phenacylpiperidinone
bromide, 91³
- C₂₀H₂₅Fa₂N₂O₂, 3586³
- C₂₀H₂₅IN₂ 1 Methylpyridinium iodide compd
with α = bi p toluidine 5426³
- C₂₀H₂₅N₂O₂ Crotonaldehyde β dimethylamino
2120³
Deoxyquinate 5429³
Propiophenone, β phenyl-α 1 piperidyl ox
ime, 3000³
- C₂₀H₂₅N₂O₂ See Quinidine Quinine
- C₂₀H₂₅N₂O₂ p Coclonophenolide β p phenyl
dino- 2126³
Yohimbic acid, 2148³, 2149³
- C₂₀H₂₅N₂O₂ Chitinase Me ester 954³
Ethanol 2 (methyl β-phenylbutylamino) p
nitrobenzoate 2709³
- Oxamide, N₂ N bis(p methoxyphenethyl)
5403³
1-Propanol 3 [methyl(γ phenylpropyl)
amino], p nitrobenzoate, HCl 2709³
Quine, peroxide, 3322³
- C₂₀H₂₅N₂O₂ Hydrocinnaumic acid 2 4 5-tri
methoxy, unsaturated 5403³
1,2 Propanediol, 3 propoxy, dicarbamate
684³
- C₂₀H₂₅N₂O₂ Quininesulfonic acid and HCl,
3004³ 1
- C₂₀H₂₅N₂O₂ See Lercaine
- C₂₀H₂₅N₂O₂ Acridone 5-amino 7 (γ-diethylamino-
propoxy) 2 nitro- and di-HCl, P 1038³
- C₂₀H₂₅N₂O₄ Glucose 4 6 ethyldene-, phenyl
osazone 5401³
- C₂₀H₂₅N₂O₄ Urca, α,α isobutenylidenelactosyl 2,5
dihydroxybenzyl 5390³
- C₂₀H₂₅N₂O₄ 3 Alanine, N {N {V {V 2 naphtha
lenesulfonylalanyl}glycyl}glycyl}, 2741³
Alanine N {N {N {N 2 naphthalenesul
fonyl}glycyl}alanyl}glycyl}, 2741³
Glycine N {N {N {N 2 naphthalenesul
fonyl}alanyl}glycyl}alanoyl} 2741³
- C₂₀H₂₅N₂O₄Zr + 6H₂O, 3026³
- C₂₀H₂₅O₄ Isomethole 691³
Phenol p heptyl benzoate 1229³
- C₂₀H₂₅O₄ (See also Crocin)
- 2 6 Anthranol 9 10 methyl 9 10-dihydro
3 7-dimethoxy 4528³
Cyclotriene 1 2 bis(4 hydroxy m anisyl)
3 4 dimethyl 4277³
- C₂₀H₂₅O₄ Phylloleucic acid trimethyl* Me
ester 3979³
- C₂₀H₂₅O₄ Glucoside β phenyl tetraacetate
1232³
Sabicylic acid thamugate Me ester tri
acetate 5677³
- C₂₀H₂₅O₄ Scheylic acid 2 3 4-O triacetate β
glucoside Me ester 5677³
- C₂₀H₂₅ClN₂O₂ See Perrazine
- C₂₀H₂₅NO 1 Piperidinetriethanol m benzyl o
phenyl HCl, 4276³
- C₂₀H₂₅NO₂ o-Cresol 4 bulyl 6-ethyl carbam
late 926³
Lithanol 2 (methyl β-phenylbutylamino)
benzoate HCl 2709³
Iodothymol 5431³
1 Propanol 3 [methyl(γ phenylpropyl)
amino] benzoate, HCl 2709³
Quinoidic acid methyl ester 4049³
- C₂₀H₂₅NO₂ Butyramide γ phenacyl N (β-phen
oxybulyl) 1832³
- C₂₀H₂₅NO₂ Dancotonic acid 1 4-dihydro 2 6
dimethyl 1 tolyl di Et ester 5426³
- Papaverone tetrahydro 200³
Snoomene-achro methine and HCl 3003³
Snoomene-rosco-methine 3003³
Snoomene-violeo-methine 3003³
- Spiro[cyclopropane 1 2 indan] 2
carboxylic acid hexahydro 2(or 3) meth
oxy-3 phenylcarbamyl, 3330³
- C₂₀H₂₅NO₂ Snoomene (hydroxymethyl),
2147³
- C₂₀H₂₅NO₂ Lithanol 2 amino-1 2-di p anisyl
acid tartrate 1210³
- C₂₀H₂₅N₂O₂ Prodigiosin 311³
- C₂₀H₂₅N₂O₂ 2 4 Pyrroledicarboxylic acid 5-
formyl-3 propyl di Et ester phenyl
hydrazine 3010³
- C₂₀H₂₅N₂O₂ Hydroquinone 3004³ 3061³
1 Propanol, 3 [methyl(γ phenylpropyl)
amino], p-succinylbenzoate HCl 2709³
- C₂₀H₂₅N₂O₂ 2 4 Pyrroledicarboxylic acid, 5-4
ethyl 3,5 dimethyl 2 isopyrrolydene
methyl-3 methyl, di Et ester, and
HBr 1127, 1131³
- Snoomene-achro methine, oxime 3003³
- C₂₀H₂₅N₂O₂S Piperazine, 2 3,5,6-tetramethyl
bis(phenylsulfonyl), 4272³
- C₂₀H₂₅N₂O₂ 4 Isopyrroledicarboxylic acid, 2 [3-(β
carboxyethyl)-5 hydroxy-4 methyl]
2 pyrrolylmethylene] 3,5 dimethyl,
di Me ester, 2433³

- C₁₁H₁₉O₂ Palmitic acid, α acetyl β keto-, Et ester, 4267⁴
- C₁₁H₁₉O₂ Aldobionic acid, heptamethyl, Me ester, 2118⁷
- C₁₈H₃₃BrO₂ Stearic acid bromoketo-, Et ester 71⁸
- C₁₈H₃₃ClO₂ Stearic acid, chloroketo- Et ester 71⁸
- C₁₈H₃₃N Cyclohexylamine Δ (β amyl Δ -non enylidene) 1809⁴
- C₈H₁₇N₃O₂ Aniline N [β [(β -d ethylamino ethyl)ethylamino]ethyl] 4 + isopropoxy 3 methoxy, P 2131⁸
- C₈H₁₇N₃O₂ Isovaleric acid β [γ [Δ [N (β aminoisovaleryl)glycyl] (leucyl)glycyl]amino] 79⁹
- Isovaleric acid β [N [(γ valyl)glycyl]leucyl]glycylamino] 78⁹
- C₇H₁₃N₃O₂ Leucine N [N (γ glycyllaucyl)glycyl] isobutyl ester HCl 2742⁹
- C₇H₁₃O₂ Agathosol dihydroxytetrahydro 2136⁸
- Octadecene acid Et ester 913⁸
- Oleic acid Et ester 3898 462⁸
- Sclareol dihydro 33.0 36.8⁸
- C₁₄H₂₇O₂ Crocetin tetradecahydro 314⁸
- C₁₆H₃₁O₂ Sc Capric acid n n-dithiolis 982⁸
- C₁₆H₃₁O₂ Phloionone acid de Me ester 450⁸
- C₈H₁₅O₂ Cellulose heptamethyl β methyl 8⁴ 3829⁴
- Glucose, heptamethyl 1 β methyl 6 α glucoside 403⁴
- Mannoside heptamethyl 4 β galactoside- α methyl 4529⁴
- heptamethyl 4 β glucoside- α methyl 4529⁴
- C₈H₁₅O₂P Methyl phosphate 3637⁴
- C₈H₁₅O₂N₂ Piperidine Ge lev 5642⁴
- C₁₈H₃₃O₂ (See also *Arachidic acid*)
- Linoleic acid 2771⁴
- 1 Octadecanol acetate 3321⁴
- Myric acid Et ester 3315 462⁴ 339⁴
- C₁₈H₃₃O₂ P₂ Methyl pyrophosphate 363⁴
- C₁₈H₃₃I Eicosane 1-iodo 277⁴
- C₁₈H₃₃N Nonylamine β -amyl N cyclohexyl and HCl 1809⁴
- C₁₈H₃₃N₂O 2 Hexadecanone 7 11 lo trimethyl cemicarbazone, 519⁴
- C₁₈H₃₃ Crocetine 5142⁴
- Eicosane 483⁴
- C₁₈H₃₃N₂O₂ 1,4 Piperazinediethanol α α di isomyl- α dimethyl and di HCl 517⁴
- C₁₈H₃₃N₂O₂ 1,4 Piperazinediethanol, α α di is (isomoxymethyl) and di HCl, 517⁴, 518⁴
- C₁₈H₃₃O 1 Eicosanol 277⁴
- C₁₈H₃₃ClNO₂ Tetraammoniummurexide perchlorate, 2620⁴
- C₁₈H₃₃ClN₂O₂Pt 2 (β Methoxyethyl) 1 1 di methylpiperidinium chloroplatinate 1814⁴
- C₁₈H₃₃ClN₂O₂Pt Choline, valeryl, chloroplatinate 3315⁴
- C₁₈H₃₃N Tetraammoniummurexide iodide, 2626⁴
- C₁₈H₃₃AcCdI₂ Methyltripropylarsenium iodide Cdl deriv, 1483⁴
- C₁₈H₃₃AcCdI₂Pt Methyltripropylarsenium chloroplatinate, 1483⁴
- C₁₈H₃₃CuN₂O₂, 3220⁴
- C₁₈H₃₃Br₂N₂O₂SW₂ Choline, bromo-, sulco tungstate 65⁴
- C₁₈H₃₃N₂O₂SW₂ Choline nicotungstate, 65⁴
- C₁₈H₃₃O₂ Anthraquinone, 1 benzoyl, tribromo deriv, 3990⁴
- C₁₈H₃₃N₂O₂ 6, 11 β Anthrathiazole-dione 2 (m naphtheryl) nitro deriv, 2724⁴
- C₁₈H₃₃ClN 3 1-cyanoacetic 8 chloro, P 304⁴
- C₁₈H₃₃ClN₂O₂ 6(2) *meta*-Anthracyrazolone 3- (dichlorobenzoyl) P 969⁴
- C₁₈H₃₃ClO₂ Salicylic acid tetraiodosulfone phthalum 511⁴
- C₁₈H₃₃ClO₂ 6 11 β Anthrathiazole-dione 2 (m naphtheryl) 2724⁴
- C₁₈H₃₃O₂ 1 β Naphthothiophenecarboxylic acid 2- α -carboxybenzoyl cyclic anhydride 5167⁴
- 3 Thiophanthrenecarboxylic acid 2- α -carboxybenzoyl anhydride 5167⁴
- C₁₈H₃₃ClO₂ 6 Anthra[1 9 β ylluran 6 one 5-chloro-1; benzyl 4259⁴
- C₁₈H₃₃ClO₂ Benzoin[β]thiophanthrone 6 13 dione 3 chloro 1 methyl 5166⁴
- C₁₈H₃₃NO₂ Anhydrosphenyl- α anthraquinonyl ketone oxime 2990⁴ 3336⁴
- Naphthol[1 2 3 η]morphanthidine 0 9 dione 5422⁴
- C₁₈H₃₃NO₂ Naphth[2 3 α]acridone 5 8 13(14) trione F 4098⁴
- C₁₈H₃₃N₂O₂ Phthalax 1 one, 2 6-diisomero-4 nitro 3 phenyl 4 methyl picrate 4273⁴
- C₁₈H₃₃CO₂C + 6ffO 17.0⁴
- C₁₈H₃₃ClNO₂ 1 Anthraldehyde 4-chloro 9 10 dihydro 9, 10-diketo, N phenyloxime 3336⁴
- C₁₈H₃₃ClO₂ 2 Anthra[9 10 β] 8 fusononyl 2 (β chlorophenyl) 2 hydroxy 3909⁴
- C₁₈H₃₃Cl₂NO₂ Phthalax 1 one 2 6-dichloro-4 nitro 3 phenyl 4 methyl picrate 4273⁴
- C₁₈H₃₃Cl₂O₂ 2 Thionanthracenecarboxylic acid 1 1 carbonyl[5 chloro 3 methyl] 5187⁴
- C₁₈H₃₃N₂O₂ 6 11 β Anthrathiazole-dione, 2 (m naphtheryl) 2724⁴
- C₁₈H₃₃N₂O₂ 6(2) *meta*-Anthracyrazolone 2 (α -carboxyphenyl) P 967⁴
- C₁₈H₃₃O₂ Benzoin acid 0 9 10 dihydro 9, 10 diketo 1 anthryl P 304⁴
- C₁₈H₃₃O₂ 1 β Naphthothiophenecarboxylic acid 2- α -carboxybenzoyl 5157⁴
- 3 Thiophanthrenecarboxylic acid 2- α -carboxybenzoyl 5167⁴
- C₁₈H₃₃O₂ 2 Thiophanthrenecarboxylic acid 3-ethoxy 1 1' carbonyl[5 chloro 3 methyl] 5187⁴
- C₁₈H₃₃O₂ Spiro[isobenzofuran 1(2) 9 xanthene] carboxylic acid, 6 hydroxy 2 keto, 5148⁴
- C₁₈H₃₃AgN₂O₂ 7 Diindolopyridinecarboxylic acid 6 13 dihydro 6 13-diketo, Et ester Ag deriv, 103⁴
- C₁₈H₃₃ClO₂ 2 Naphthole acid 3 (α -chloro 3 methyl 1 thionaphthylbenzoyl) 5166⁴
- C₁₈H₃₃ClN₂O 3n 7 Diindolopyridinecarboxylic acid 6 13 dihydro-6 13 diketo-, Et ester, complex from SmCl₃ 103⁴
- C₁₈H₃₃N Dibenzacridone, 704⁴
- C₁₈H₃₃NO Naphtho[1 2,3 η]morphanthridone 9(5)-one, 5422⁴
- C₁₈H₃₃NO₂ 1 Anthraldehyde 9 10-dihydro-9, 10-diketo, V phenyloxime, 3336⁴
- Anthranilic acid, N (10 keto 9(10) anthryl idene) 5422⁴
- Anthraquinone, 1 benzoyl monoxime, 3336⁴
- 1 Anthraquinonecarboxanilide 2990⁴
- 1 Anthracene acid, 9 10-dihydro 10-keto-9 phenylamino, 5422⁴

- C₂₁H₁₉NO₂ Acetanilide α formyl α -diphenyl 4254¹
Fluorencarboxy- α -toluene, 2 hydroxy P 5177¹
- C₂₁H₁₉NO₂ Benzanilide α hydroxy α -toluate 1818¹
 Δ^2 -Oxazoline, 2 β anisyl 4 3-epoxy 4 3-di phenyl, 295¹
 α -Toluanilide, α hydroxy benzoate 1818¹
- C₂₁H₁₉NO₂ Anthra[2,1- β]pyrrole-2-carboxylic acid, 3 acetyl 1 2-dihydro-1 keto- Et ester 948¹
- C₂₁H₁₉N₃ 1 3 4 Triazole, 2 benzyl 1 5-diphenyl 295¹
1 3 4 Triazole 2 5-diphenyl 1 m (and p) tolyl 295¹
- C₂₁H₁₉N₃O 1 3 4 Triazole 1 β anisyl 2 5-di phenyl, 295¹
- C₂₁H₁₉N₃O₂ Anthranilic acid N (N 3 pyridyl carbonylanthranoyl) Me ester 3000¹
- C₂₁H₁₉N₃O₂ ketone 3 acenaphthenyl ethyl perate 5074¹
- C₂₁H₁₉O₂Rb₂ 2381¹
- C₂₁H₁₉ Ethylene 1 (β phenylphenyl) 1 β tolyl 4239¹ 4239¹
Indan 2 3 diphenyl, 333¹
- C₂₁H₁₉BrN₃O₂ β -Toluenesulfono-m-toluene bromo 6 hydroxy 3-nitro- 3 nitro β -toluenesulfonate 5408¹
- C₂₁H₁₉ClFN₃O₂ Dibenzylamine β -chloro- β -fluoro-N-methyl perate 923¹
- C₂₁H₁₉ClS₂ Thioanthrene 9-chloro 7-dimethyl 9 phenyl 11Cl 1828¹
- C₂₁H₁₉F₂N₃O Dibenzylamine α - β -difluoro λ -methyl perate 923¹
- C₂₁H₁₉N₃O₂ Pyruvic acid diphenyl phenyl hydrazone 941¹
- C₂₁H₁₉N₃O₂ Crotonaldehyde m (α hydroxyphenyl carbonyl) P 3670¹
- C₂₁H₁₉N₃O₂ 2 Naphthol 1 (3 5-dimethyl 1 phenyl 4 pyrazolylazo) 1a23¹
- C₂₁H₁₉N₃O₂ Urea 1 bis(6-methoxyquinolyl) and salts 943¹
- C₂₁H₁₉N₃S Δ^1 1 3 4 Thiodiazole 2 azino-4 benzyl α -phenylamino- and HCl 4362¹
- C₂₁H₁₉OS₂ 9 Thioanthrene, 2 7-dimethyl 9 phenyl 1878¹
- C₂₁H₁₉OS₂ Ethylenesulfenic acid 2 2 diphenyl 1 phenylmesapto Me ester 4263¹
- C₂₁H₁₉O₂ Fluorene 9 β anisyl 9-methoxy, 4573¹
Naphthalene diacetylbenzyl, 1a13¹
1 Propanol 2 3-epoxyphenyl, 941¹
2 Propanone 1 hydroxy 1 3 3 triphenyl (?) 941¹
Propiophenone β hydroxy β β diphenyl 3611¹
Xylenol α phenyl benzoate, 93¹, 363a
- C₂₁H₁₉O₂S₂ Ethylenesulfenic acid 1 phenyl 2 2 diphenyl Me ester 4263¹
- C₂₁H₁₉O₂ Hydrazine acid α β β triphenyl 298¹
Phenol, β -(β phenyl), benzoate 4873¹
Salicylic acid 4,6-diphenyl Et ester, 3327¹
- C₂₁H₁₉O₂ Peroxide α , β -epoxy β , β -diphenylethyl α hydroxybenzyl 941¹
1 2 Pyran 3 carboxylic acid 2 keto-4 phenyl 6- β -tolyl Et ester 214¹
- C₂₁H₁₉O₂ Meconin, 2 (methoxynaphthyl), 4519¹
- C₂₁H₁₉O₂ 4 Chromanone, 2 ammal 7 8 di hydroxy diacetate, 1a34¹
4 Chromanone 7 hydroxy 3-vanillyl di acetate, 1a34¹
- C₂₁H₁₉O₂ Basean 1a28¹
- C₂₁H₁₉S₂ Thioanthrene 2,7 dimethyl 9 phenyl, 1828¹
- C₂₁H₁₉BrN₃O₂ Propionic acid, α (2 4 6-trinitrophenoxy) Et ester, compd with 4,1 BrC₂₁H₁₉N₃O₂ 8a5¹
- C₂₁H₁₉ClN₃O₂S₂ Thiazolo[α]quinoline, 2 4 5 6-tetrahydro 2 [(3,4 5 6 tetrahydro 3 hydroxythiazolo[α]quinolin-2 yl) methylene] perchlorate 5170¹
- C₂₁H₁₉FN₃O₂ Dibenzylamine fluoro λ -methyl perate 923¹
- C₂₁H₁₉FN₃S₂ Thiazolo[α]quinoline, 2,4,5,6-tetrahydro 2 [(3,4 5 6 tetrahydro 3 hydroxythiazolo[α]quinolin-2 yl) methylene], sulfide 5170¹
- C₂₁H₁₉NO₂ Acetamide V triphenylmethyl 2991¹
- C₂₁H₁₉NO₂ Acetohydroxamic acid laphenyl Me ester 942¹
- C₂₁H₁₉NO₂ Chelerythrine 4003¹ 5898¹
- C₂₁H₁₉NO₂ Hydrastine dedihydro 2150¹
- C₂₁H₁₉N₃O₂ 1 Naphthalenecarbinol α allyl- α -methyl perate 3330¹
- C₂₁H₁₉N₃O₂ 2 Carbazolecarboxamide 6 (β hydroxyamino) N,N dimethyl P 1095¹
- C₂₁H₁₉N₃ Benzophenone 1bis-4 β -tolylisenu carbamate 1225
- C₂₁H₁₉N₃ Pyrazole 4 (2 amino-1 naphthylazo) 3 5-dimethyl 1 phenyl 1523
- C₂₁H₁₉BrN₃O₂ Hydrastine bromo- and HBr 2103¹
- C₂₁H₁₉ClNO₂ Hydrastine chlorom 2150
- C₂₁H₁₉INO₂ Hydrastine iodo and salts 2150¹
- C₂₁H₁₉NNA₂ β -Toluidine λ λ -dimethyl- α -di-phenyl Na deriv 1235¹
- C₂₁H₁₉N₃ Acetophenone benzylphenylhydrazone 213¹
- Ketone 3 acenaphthenyl ethyl phenyl hydrazone 5674
- C₂₁H₁₉N₃O₂ Acetotoluene 4-diphenylamino-309¹
- C₂₁H₁₉N₃O₂ Quinone 4 (diacetylamino) 6 ethoxy 2 phenyl 4884¹
- C₂₁H₁₉N₃O₂S₂ Piperazine 2 3 5 6-tetramethyl 1 phenylsulfonyl β -toluenesulfonate 4272¹
- C₂₁H₁₉N₃O₂ Hydrastine nitro, and HCl 2149¹
- C₂₁H₁₉N₃O₂Si + Si₂O 3926
- C₂₁H₁₉N₃ Formamide α phenylazo N,N di tolyl 2701¹
Pyruvaldehyde phenyl phenylsazone 1820¹
- C₂₁H₁₉N₃O₂ Benzohydroxylamine N,N-dimethyl perate 91¹
- C₂₁H₁₉N₃O₂ Benzylamine β -dimethylamino diacetate 4243¹
- C₂₁H₁₉O₂ Mentol diphenyl 94¹ 3635¹
- C₂₁H₁₉O₂ Butyrophenone α (α 2 lurylbenzyl), 5121¹
Propiophenone β 2 luryl- α -dimethyl β phenyl, 4424¹
- C₂₁H₁₉O₂S₂ 2 4 Xylenol α -phenyl, β -toluenesulfonate 363a¹
- C₂₁H₁₉O₂ α -Veratric acid, 6-(2-methoxy 1 oaph thylmethyl), 4319¹
- C₂₁H₁₉O₂ Veratraldehyde, 2 (5-formyl 2-methoxy 4 vinylphenoxy) 5 vinyl 2983¹
- C₂₁H₁₉O₂ Anhydromethylglucoside dibenzoate, 687¹
Oxalacetic acid, [(3 hydroxy 2 naphthyl) methylene], di Et ester, acetate, 2146¹

- C₁H₁₀O Dandaz 567²
 Frangula 944¹
 C₁H₁₀O₂ Cestatin 567²
 C₁H₁₀Fb Plumbane allylphenyl, 5407¹
 C₁H₁₀Al 65¹
 C₁H₁₀BrFb Plumbane bromotr-o-tolyl, 2688²
 C₁H₁₀BrO Hydratropic acid β α-dibromo-β (α bromo 2,4 dimethoxybenzoyl) 2,4-dimethoxy Me ester, 4864²
 C₁H₁₀CIN₂O₂ 2 Methyl 1 (α methyl γ (2 methyl 1(2) benzothiazolylidene) butyl)benzothiazolium perchlorate, 5170¹
 C₁H₁₀ClFb Plumbane chlorotr-p-tolyl 5407¹
 C₁H₁₀N Tribenzylamine, III 262¹
 C₁H₁₀NO Carbonyl (p-dimethylaminophenyl) diphenyl 1230¹
 Ethanol 2 benzylamino-1 2-diphenyl 1819²
 C₁H₁₀NO Cinchophen 6 8-dimethyl Pr ester, P 5013¹
 Cinchophen 6 methyl Bu ester P 5513¹
 C₁H₁₀NO₂ Malonic acid (2 anhyllamino) di Et ester 947¹
 C₁H₁₀NO₂ Dec pukatant ethyl carbonate, 3650¹
 C₁H₁₀NO₂ Dec Hydrastine
 C₁H₁₀NO Anhydros-N hydroxyhydrastone, 4774¹
 Hydrastine V-oxide 4274¹
 N-hydroxydimethylamine V hydroxy, and HCl 4774¹
 C₁H₁₀NO₂S N-hydroxydimethylsulfamic acid, V hydroxy 4274¹
 C₁H₁₀N₂O₂ Cinchophen, 6-ethoxy, isopropyl isenchydrazide 4651¹
 C₁H₁₀N₂O₂ Benzylidimethylphenylammonium 2,4-dinitrophenoxide, 4242¹
 C₁H₁₀N₂O₂ 1 Naphthylamine 2,4-dinitro-N (trimethoxyphenethyl), 4600^{1,2}
 C₁H₁₀N₂O₂ Benzohydroxamicamide, N₂ deriv, 2709¹
 C₁H₁₀O P Toly phosphate, 348¹, 3182¹, 5607¹
 C₁H₁₀AsI Benzylidimethylphenylsulfonamide, 243¹
 C₁H₁₀NO₂ Acetic acid, [(1 (p methoxyethyl) 5 methyl 4 benzothiazolyl)mercaptol], ethoxide, 4501¹
 C₁H₁₀NO₂ Caplaine, tetrahydro-(2) ethoxide, 518¹
 Fukienone, acetate, methoxide, 3600¹
 C₁H₁₀NO₂ Ketone 4-dimethylamino-1 naphthyl β-dimethylaminophenyl 1212¹
 Quinaldine, α β dimethylaminobenzal 6 ethoxy, 4625¹
 C₁H₁₀NO₂ (See also Strychnine)
 Carboxamide N, N-dimethyl 6 methoxy 2 phenyl, 4585¹
 2,5-γ-isopropyl-and-carboxamide, 4839¹
 C₁H₁₀NO₂ Benzylidimethylphenylsulfonamide α-nitrophenoxide 4242¹
 C₁H₁₀NO₂ + 4110 Amino acid, under 188-200¹, from oxidation of tetrahydrostrychnine, and perchlorate, 2439¹, 2432¹
 C₁H₁₀NO₂ Mangonidicarboxylic acid, keto, quinoxaline deriv, 5173¹
 C₁H₁₀NO₂ Hydrastine amino-, and HCl 2149¹
 C₁H₁₀N₂ Guanidine α amino-β γ-tolyl, 2701¹
 C₁H₁₀N₂O₂ Lutein, 1,3,5,7-trimethyl, 4880¹
 C₁H₁₀N₂O₂ Iperhene 1 (3 4-dihydro-2 naphthyl), picrate 2139¹
 C₁H₁₀N₂O₂ 1,2,3,4,6,7 Hexahydro-9,10 di methyl-10-oxo-10-quinolizone picrate, 1313¹
 C₁H₁₀N₂O₂Fb Plumbane, β γ-dihydroxypropyl-phenyl, 5407¹
 C₁H₁₀N₂O₂ Δ²-3-Hexenone, 1 m amyl-4 (m methoxybenzyl), 2132¹
 C₁H₁₀N₂O₂ Transluc acid mono-Pr ester, 1500¹
 C₁H₁₀N₂O₂ Dermal 103¹
 Isodermal 103¹
 C₁H₁₀O₂ 9,9,10(10) Anthracenetracarboxylic acid, compd with Et₂O, 1515¹
 Chalcone, 4' - hydroxy - 2,3,4,6 - tetra methoxy, acetate, 5430¹
 C₁H₁₀O₂ Coumarin, 5,6,7 trimethoxy-3 (3,4,5-trimethoxyphenyl), 4641¹
 C₁H₁₀O₂ Naphthopone 4532¹
 C₁H₁₀Fb Plumbane tri-o-tolyl, 2688¹
 C₁H₁₀CIN₂O₂ 2 Ethyl 1 [(2 ethyl 5 methyl 1(2) - benzothiazolylidene)methyl] 5 - methylbenzothiazolium perchlorate, 5170¹
 C₁H₁₀CIN₂O₂ Isoquinoline, 1 (α-chlorobutyl) 3 4 dihydro-0 7 dimethoxy-, picrate, 1313¹
 C₁H₁₀N₂ Quinolone, 2 β-dimethylaminostyryl 6-methyl, methoxide 4625¹
 C₁H₁₀N₂ 2 Ethyl 1 [(2 ethyl 5-methyl 1(2) benzothiazolylidene)methyl] 5 methyl benzothiazolium iodide 5170¹
 C₁H₁₀NO Anthroo, dimethyl 10-(1 pipendyl), 2693¹, 3640¹, 4647¹
 C₁H₁₀N₂O Homotribolobimethylmethine, and HCl, 2731¹, 2732¹
 Transluc acid, Pr ester 1500¹
 C₁H₁₀N₂O Allodihydroxyhydrocryptopine, 1202¹
 C₁H₁₀NO₂ (See also Cryptopine, Heroin)
 Allodyptopine, 1201¹
 Homochelidone, 1201¹, 4003¹
 C₁H₁₀NO₂ Hydrastine, N hydroxy-, 4274¹
 C₁H₁₀N₂O Anthraquinone-9-iminoamide salt by drate, 1 hydroxy 2 glucosyl-, Me deriv, 4261¹
 C₁H₁₀N₂ Compd, m 199 200¹, from tricyclopentadecane and Ph₃N, 1807¹
 C₁H₁₀N₂O Retene, acetyl, semicarbazone, 3424¹
 C₁H₁₀N₂O₂ Hydrazine, hydrastine-, 2149¹
 C₁H₁₀N₂O Carothellax, dihydro-, amide, 1104¹
 C₁H₁₀N₂O Cannabinal, trimethyl, 2732¹
 C₁H₁₀N₂O Quinolone 2 (β-diethylaminoethyl), monoperate 4270¹
 C₁H₁₀AlN, 637¹
 C₁H₁₀SiN₂O₂S Sulfonic acid 2 mercapto V-sulfonethyl, 5 Di deriv, di Na salt P 1317¹
 C₁H₁₀BrN₂O₂ Strychnine, dihydrotetrahydro-, and salts, 2432¹
 C₁H₁₀BrO₂ α Mangosin tetrahydroamide, 4277¹
 C₁H₁₀NO Homotribolobimethylmethine, 2731¹
 Methoxide, m 272 4¹ of methane from methylpukatane methoxide, 3655¹
 Tribolobimethylmethine, methyl, methoxide 2731¹
 C₁H₁₀INO Laurepukine dimethyl, methoxide-3639¹
 C₁H₁₀N₂O Acetyl deriv, m 194-6¹, of compd m 174 7¹, 5473¹
 1 Naphthalenecarbinol, 4 dimethylamino-α (β-dimethylaminophenyl), 1313¹
 Strychnine, perchlorate, 2432¹
 C₁H₁₀N₂O Cyclopentacetonamide, 3 methyl, 4231¹
 C₁H₁₀N₂O 1 Iperhene, 2 benzyl, 3,5-dinitrobenzoate, 4242¹

- C₂₁H₂₅N₃O₃** Phenylhydrazine salt of the osarone of compd from 2 methyl 2,3 buladiene sulfone, 277¹
- C₂₁H₂₁O₄** Caprylophenone, β hydroxy, benzoate 1229¹
- C₂₁H₂₁O₄** $\Delta^1 \alpha^2(\beta)$ Benzonaaphenediacetic acid, 2,3,3a,4 tetrahydro-, di Et ester 5161¹
- C₂₁H₂₁O₄** Lactone anhydride in 212¹, from duodephanthendiacid, 5173¹
= Mangostin 4277¹
- C₂₁H₂₁O₄** 1,3 Isopropenediol, 2,2 bis(methoxy methyl), dibenzoate 1801¹
Veratraldehyde 6-ethyl 2 (4 ethyl 5-formyl 2 methoxyphenoxy), 2983¹
- C₂₁H₂₁O₄** Hydrotropic acid β (2,4-dimethoxy benzoyl) 2,4-dimethoxy Me ester 4866¹
Me ester m 104¹ of acid m 157¹ 4866¹
- C₂₁H₂₁O₄ + 2H₂O** See *Palovina*
- C₂₁H₂₁O₄S** β Glucothiost tetraacetate, 1 benzozate 4233¹
- C₂₁H₂₁O₄** Gluco-m hydroxybenzaldehyde telia acetyl 2697¹
- C₂₁H₂₁ClN₂O₄** Quinine peroxide, ClHCl compd, 3322¹
- C₂₁H₂₁NO₃** 1 Heptanol 2 benzal, carbamate 2703¹
- C₂₁H₂₁NO₃** Anhydrocryptopine, tetrahydro 1202¹
Glaucone, and salts 518¹
Palmitine tetrahydro 3345¹, 5390¹
- C₂₁H₂₁NO₃** Trilobine compd with Me₂SO₄, 2731¹
- C₂₁H₂₁NO₃** Glucosamine N benzoyltetraacetyl 3069¹
- C₂₁H₂₁N₂O₃** Hydrotropic acid, β (2,4-dimethoxy benzoyl) 2,4-dimethoxy, semicarbazone 4566¹
- C₂₁H₂₁INO₃** Pseudopentapentanoic, methyl meth iodide 4837¹
- C₂₁H₂₁INO₃** Trilobinamethylmethane meth iodide, 2731¹
- C₂₁H₂₁IN₂** 1 Methylcolidionine iodide, compd with benzoic acid 5426¹
- C₂₁H₂₁N₂O₃** Quinine methyl 1829¹
Etichamine tetrahydro- and perchlorate 2431¹, 2432¹
- C₂₁H₂₁N₂O₃** (See also Yohimbine)
Isyohimbine 2149¹, 4274¹
- C₂₁H₂₁N₂O₃** Chetone, Et ester 954¹
1 Propanol 3 (methyl 4-phenylbutylamine) β nitrobenzoate, HCl 2709¹
- C₂₁H₂₁N₂O₃** 1,2 Propanediol, 3 butoxy, dicar benzoate, 684¹
- C₂₁H₂₁N₂O₃** 4 Isopyrrolepropionic acid 2 (3,5 dicarboxyethyl 4 methyl 2 pyrrol methylene) 3,5-dimethyl *HEr*, 113¹
- C₂₁H₂₁O₃** Phenol β octyl, benzoate 1229¹
- C₂₁H₂₁O₃** Carboxic acid, thiol, dithymyl ester, 290¹
Carboxic acid ibenzo, dithymyl ester, 290¹
- C₂₁H₂₁O₃** Crocetin di Me ester 3352¹
- C₂₁H₂₁ClN₂O₃** 4 Isopyrrolepropionic acid, 2 ((4 (8 carboxyethyl) 3,5 dimethyl 2 pyrrolmethylenemethylene) 3,5 di methyl, di Me ester, and *HEr* HCl 5900¹
- C₂₁H₂₁NO** 1 Piperidineethanol, α phenethyl-phenyl *HCl*, 4276¹
- C₂₁H₂₁NO** 1 Propanol 3 (methyl 4-phenylbutyl amine) benzoate, *HCl*, 2709¹
- C₂₁H₂₁NO₂** Dinicotinic acid, 1,4-d hydro-2,6-dimethyl-4-yl, di Et ester, 5426¹
- Dinicotinic acid**, 1,2 (or 1,4) dihydro 1,2,4,6 tetramethyl 2 (or 4) phenyl di Et ester, 290¹
- Laudanosine**, 2148¹, 3004¹, 3006¹
- C₂₁H₂₁NO₂** Sarcosine bis(hydroxymethyl) 2147¹
- C₂₁H₂₁NO₂** Veratrylamine N (3,4-dimethoxy phenethyl) oxalate 3633¹
- C₂₁H₂₁NO₂S** Sarcosine methosulfate 4551¹
- C₂₁H₂₁N₂O₂S** Benzenesulfonic acid β methoxy Me ester compd with pyrazinone 3322¹
- C₂₁H₂₁INO₂** Sarcosine achso methane meth iodide 3003¹
Sarcosine roseo methane methiodide 3003¹
Sarcosine violeo methane methiodide, 3003¹
- C₂₁H₂₁INO₂** Sarcosine₁ (hydroxymethyl) methiodide 2147¹
- C₂₁H₂₁N₂O₂** (See also *Opiocene*)
1 Propanol 3 (methyl 4-phenylbutylamine) β aminobenzoate *HCl* 2709¹
- C₂₁H₂₁N₂O₂** Compd from β amine and Et m methylacetosulfate 1504¹
2,2 Indandiacetic acid tetrahydro- α keto, di Me ester phenylhydrazine 3336¹
3 Isopyrrolepropionic acid 2 (4 (8-carboxy ethyl) 3,5 dimethyl 2 pyrrolmethyl ester-4 5-dimethyl di Me ester *salts* 1257¹
- C₂₁H₂₁NO₂S** Piperazine 2,3,5,6 tetramethyl 1-phenylsulfonyl 4- β tolylsulfonyl, 4272¹
- C₂₁H₂₁N₂O₂** 4 Isopyrrolepropionic acid 2 (3 (8 carboxyethyl) 4 methoxy 4 methyl 2 pyrrolmethylene) 3,5 dimethyl di Me ester 2433¹
3 Pyrrolepropionic acid 3,5-carboxylas (2,4-dimethyl di Me ester 5899¹
- C₂₁H₂₁N₂O₂** Nucidine 2 keto 3 hydroxy acetate, salt with AcOH *FD* 63¹
Sarcosine bis(hydroxymethyl), oxime 2147¹
- C₂₁H₂₁N₂O₂** Trimechylhexose, phenylsarcosine 4372¹
- C₂₁H₂₁N₂O₂** 2 Pyrrolicarboxylic acid 3,5 methylenesulfonyl acetamido 3 methyl di Et ester 961¹
- C₂₁H₂₁O₂** 4,7 Hendecadiene 6-ol, 2,2,10,10-tetra methyl-6 phenyl, 4371¹
- C₂₁H₂₁O₂** Dilactone acid in 203¹ from duode phenanthroic acid, 5173¹
- C₂₁H₂₁O₂** Duodephanthendiacid 5173¹
- C₂₁H₂₁O₂S** Ethylmethylphenacylsulfonium bromocamphorsulfonate 690¹
- C₂₁H₂₁N₂O₂** Compd, in 113 5¹ of hashtal and pyrazinone *F* 4360¹
- C₂₁H₂₁N₂** Aniline *p,p* methylnebis(*N,N* di ethyl *F* 3670¹
- C₂₁H₂₁N₂O₂** Curcuminic acid 2 isosarcosine, β dithylaminoethyl ester, 5245¹
- C₂₁H₂₁N₂O₂** 3 Pyrrolepropionic acid, 5-(5-carboxyethyl 3 ethyl 4 methyl 2 pyrrolmethyl)-4 α dimethyl, Me ester, 4099¹
- C₂₁H₂₁N₂O₂** Carbamic acid, (3,4-dimethoxy phenethyl)idino, 3,4 dimethoxyphen ethylamine *salts* 4241¹
- C₂₁H₂₁N₂O₂** Piperazine, 2,3,5,6 tetramethyl 1- β tolylsulfonyl, benzenesulfonate 4272¹
- C₂₁H₂₁N₂O₂** 4 Isopyrrolepropionamide, 2 (3 methoxy - 3 methyl - 3 (8 methyl

- b m lethyl = 1,3,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,77,79,81,83,85,87,89,91,93,95,97,99,101,103,105,107,109,111,113,115,117,119,121,123,125,127,129,131,133,135,137,139,141,143,145,147,149,151,153,155,157,159,161,163,165,167,169,171,173,175,177,179,181,183,185,187,189,191,193,195,197,199,201,203,205,207,209,211,213,215,217,219,221,223,225,227,229,231,233,235,237,239,241,243,245,247,249,251,253,255,257,259,261,263,265,267,269,271,273,275,277,279,281,283,285,287,289,291,293,295,297,299,301,303,305,307,309,311,313,315,317,319,321,323,325,327,329,331,333,335,337,339,341,343,345,347,349,351,353,355,357,359,361,363,365,367,369,371,373,375,377,379,381,383,385,387,389,391,393,395,397,399,401,403,405,407,409,411,413,415,417,419,421,423,425,427,429,431,433,435,437,439,441,443,445,447,449,451,453,455,457,459,461,463,465,467,469,471,473,475,477,479,481,483,485,487,489,491,493,495,497,499,501,503,505,507,509,511,513,515,517,519,521,523,525,527,529,531,533,535,537,539,541,543,545,547,549,551,553,555,557,559,561,563,565,567,569,571,573,575,577,579,581,583,585,587,589,591,593,595,597,599,601,603,605,607,609,611,613,615,617,619,621,623,625,627,629,631,633,635,637,639,641,643,645,647,649,651,653,655,657,659,661,663,665,667,669,671,673,675,677,679,681,683,685,687,689,691,693,695,697,699,701,703,705,707,709,711,713,715,717,719,721,723,725,727,729,731,733,735,737,739,741,743,745,747,749,751,753,755,757,759,761,763,765,767,769,771,773,775,777,779,781,783,785,787,789,791,793,795,797,799,801,803,805,807,809,811,813,815,817,819,821,823,825,827,829,831,833,835,837,839,841,843,845,847,849,851,853,855,857,859,861,863,865,867,869,871,873,875,877,879,881,883,885,887,889,891,893,895,897,899,901,903,905,907,909,911,913,915,917,919,921,923,925,927,929,931,933,935,937,939,941,943,945,947,949,951,953,955,957,959,961,963,965,967,969,971,973,975,977,979,981,983,985,987,989,991,993,995,997,999,1001,1003,1005,1007,1009,1011,1013,1015,1017,1019,1021,1023,1025,1027,1029,1031,1033,1035,1037,1039,1041,1043,1045,1047,1049,1051,1053,1055,1057,1059,1061,1063,1065,1067,1069,1071,1073,1075,1077,1079,1081,1083,1085,1087,1089,1091,1093,1095,1097,1099,1101,1103,1105,1107,1109,1111,1113,1115,1117,1119,1121,1123,1125,1127,1129,1131,1133,1135,1137,1139,1141,1143,1145,1147,1149,1151,1153,1155,1157,1159,1161,1163,1165,1167,1169,1171,1173,1175,1177,1179,1181,1183,1185,1187,1189,1191,1193,1195,1197,1199,1201,1203,1205,1207,1209,1211,1213,1215,1217,1219,1221,1223,1225,1227,1229,1231,1233,1235,1237,1239,1241,1243,1245,1247,1249,1251,1253,1255,1257,1259,1261,1263,1265,1267,1269,1271,1273,1275,1277,1279,1281,1283,1285,1287,1289,1291,1293,1295,1297,1299,1301,1303,1305,1307,1309,1311,1313,1315,1317,1319,1321,1323,1325,1327,1329,1331,1333,1335,1337,1339,1341,1343,1345,1347,1349,1351,1353,1355,1357,1359,1361,1363,1365,1367,1369,1371,1373,1375,1377,1379,1381,1383,1385,1387,1389,1391,1393,1395,1397,1399,1401,1403,1405,1407,1409,1411,1413,1415,1417,1419,1421,1423,1425,1427,1429,1431,1433,1435,1437,1439,1441,1443,1445,1447,1449,1451,1453,1455,1457,1459,1461,1463,1465,1467,1469,1471,1473,1475,1477,1479,1481,1483,1485,1487,1489,1491,1493,1495,1497,1499,1501,1503,1505,1507,1509,1511,1513,1515,1517,1519,1521,1523,1525,1527,1529,1531,1533,1535,1537,1539,1541,1543,1545,1547,1549,1551,1553,1555,1557,1559,1561,1563,1565,1567,1569,1571,1573,1575,1577,1579,1581,1583,1585,1587,1589,1591,1593,1595,1597,1599,1601,1603,1605,1607,1609,1611,1613,1615,1617,1619,1621,1623,1625,1627,1629,1631,1633,1635,1637,1639,1641,1643,1645,1647,1649,1651,1653,1655,1657,1659,1661,1663,1665,1667,1669,1671,1673,1675,1677,1679,1681,1683,1685,1687,1689,1691,1693,1695,1697,1699,1701,1703,1705,1707,1709,1711,1713,1715,1717,1719,1721,1723,1725,1727,1729,1731,1733,1735,1737,1739,1741,1743,1745,1747,1749,1751,1753,1755,1757,1759,1761,1763,1765,1767,1769,1771,1773,1775,1777,1779,1781,1783,1785,1787,1789,1791,1793,1795,1797,1799,1801,1803,1805,1807,1809,1811,1813,1815,1817,1819,1821,1823,1825,1827,1829,1831,1833,1835,1837,1839,1841,1843,1845,1847,1849,1851,1853,1855,1857,1859,1861,1863,1865,1867,1869,1871,1873,1875,1877,1879,1881,1883,1885,1887,1889,1891,1893,1895,1897,1899,1901,1903,1905,1907,1909,1911,1913,1915,1917,1919,1921,1923,1925,1927,1929,1931,1933,1935,1937,1939,1941,1943,1945,1947,1949,1951,1953,1955,1957,1959,1961,1963,1965,1967,1969,1971,1973,1975,1977,1979,1981,1983,1985,1987,1989,1991,1993,1995,1997,1999,2001,2003,2005,2007,2009,2011,2013,2015,2017,2019,2021,2023,2025,2027,2029,2031,2033,2035,2037,2039,2041,2043,2045,2047,2049,2051,2053,2055,2057,2059,2061,2063,2065,2067,2069,2071,2073,2075,2077,2079,2081,2083,2085,2087,2089,2091,2093,2095,2097,2099,2101,2103,2105,2107,2109,2111,2113,2115,2117,2119,2121,2123,2125,2127,2129,2131,2133,2135,2137,2139,2141,2143,2145,2147,2149,2151,2153,2155,2157,2159,2161,2163,2165,2167,2169,2171,2173,2175,2177,2179,2181,2183,2185,2187,2189,2191,2193,2195,2197,2199,2201,2203,2205,2207,2209,2211,2213,2215,2217,2219,2221,2223,2225,2227,2229,2231,2233,2235,2237,2239,2241,2243,2245,2247,2249,2251,2253,2255,2257,2259,2261,2263,2265,2267,2269,2271,2273,2275,2277,2279,2281,2283,2285,2287,2289,2291,2293,2295,2297,2299,2301,2303,2305,2307,2309,2311,2313,2315,2317,2319,2321,2323,2325,2327,2329,2331,2333,2335,2337,2339,2341,2343,2345,2347,2349,2351,2353,2355,2357,2359,2361,2363,2365,2367,2369,2371,2373,2375,2377,2379,2381,2383,2385,2387,2389,2391,2393,2395,2397,2399,2401,2403,2405,2407,2409,2411,2413,2415,2417,2419,2421,2423,2425,2427,2429,2431,2433,2435,2437,2439,2441,2443,2445,2447,2449,2451,2453,2455,2457,2459,2461,2463,2465,2467,2469,2471,2473,2475,2477,2479,2481,2483,2485,2487,2489,2491,2493,2495,2497,2499,2501,2503,2505,2507,2509,2511,2513,2515,2517,2519,2521,2523,2525,2527,2529,2531,2533,2535,2537,2539,2541,2543,2545,2547,2549,2551,2553,2555,2557,2559,2561,2563,2565,2567,2569,2571,2573,2575,2577,2579,2581,2583,2585,2587,2589,2591,2593,2595,2597,2599,2601,2603,2605,2607,2609,2611,2613,2615,2617,2619,2621,2623,2625,2627,2629,2631,2633,2635,2637,2639,2641,2643,2645,2647,2649,2651,2653,2655,2657,2659,2661,2663,2665,2667,2669,2671,2673,2675,2677,2679,2681,2683,2685,2687,2689,2691,2693,2695,2697,2699,2701,2703,2705,2707,2709,2711,2713,2715,2717,2719,2721,2723,2725,2727,2729,2731,2733,2735,2737,2739,2741,2743,2745,2747,2749,2751,2753,2755,2757,2759,2761,2763,2765,2767,2769,2771,2773,2775,2777,2779,2781,2783,2785,2787,2789,2791,2793,2795,2797,2799,2801,2803,2805,2807,2809,2811,2813,2815,2817,2819,2821,2823,2825,2827,2829,2831,2833,2835,2837,2839,2841,2843,2845,2847,2849,2851,2853,2855,2857,2859,2861,2863,2865,2867,2869,2871,2873,2875,2877,2879,2881,2883,2885,2887,2889,2891,2893,2895,2897,2899,2901,2903,2905,2907,2909,2911,2913,2915,2917,2919,2921,2923,2925,2927,2929,2931,2933,2935,2937,2939,2941,2943,2945,2947,2949,2951,2953,2955,2957,2959,2961,2963,2965,2967,2969,2971,2973,2975,2977,2979,2981,2983,2985,2987,2989,2991,2993,2995,2997,2999,3001,3003,3005,3007,3009,3011,3013,3015,3017,3019,3021,3023,3025,3027,3029,3031,3033,3035,3037,3039,3041,3043,3045,3047,3049,3051,3053,3055,3057,3059,3061,3063,3065,3067,3069,3071,3073,3075,3077,3079,3081,3083,3085,3087,3089,3091,3093,3095,3097,3099,3101,3103,3105,3107,3109,3111,3113,3115,3117,3119,3121,3123,3125,3127,3129,3131,3133,3135,3137,3139,3141,3143,3145,3147,3149,3151,3153,3155,3157,3159,3161,3163,3165,3167,3169,3171,3173,3175,3177,3179,3181,3183,3185,3187,3189,3191,3193,3195,3197,3199,3201,3203,3205,3207,3209,3211,3213,3215,3217,3219,3221,3223,3225,3227,3229,3231,3233,3235,3237,3239,3241,3243,3245,3247,3249,3251,3253,3255,3257,3259,3261,3263,3265,3267,3269,3271,3273,3275,3277,3279,3281,3283,3285,3287,3289,3291,3293,3295,3297,3299,3301,3303,3305,3307,3309,3311,3313,3315,3317,3319,3321,3323,3325,3327,3329,3331,3333,3335,3337,3339,3341,3343,3345,3347,3349,3351,3353,3355,3357,3359,3361,3363,3365,3367,3369,3371,3373,3375,3377,3379,3381,3383,3385,3387,3389,3391,3393,3395,3397,3399,3401,3403,3405,3407,3409,3411,3413,3415,3417,3419,3421,3423,3425,3427,3429,3431,3433,3435,3437,3439,3441,3443,3445,3447,3449,3451,3453,3455,3457,3459,3461,3463,3465,3467,3469,3471,3473,3475,3477,3479,3481,3483,3485,3487,3489,3491,3493,3495,3497,3499,3501,3503,3505,3507,3509,3511,3513,3515,3517,3519,3521,3523,3525,3527,3529,3531,3533,3535,3537,3539,3541,3543,3545,3547,3549,3551,3553,3555,3557,3559,3561,3563,3565,3567,3569,3571,3573,3575,3577,3579,3581,3583,3585,3587,3589,3591,3593,3595,3597,3599,3601,3603,3605,3607,3609,3611,3613,3615,3617,3619,3621,3623,3625,3627,3629,3631,3633,3635,3637,3639,3641,3643,3645,3647,3649,3651,3653,3655,3657,3659,3661,3663,3665,3667,3669,3671,3673,3675,3677,3679,3681,3683,3685,3687,3689,3691,3693,3695,3697,3699,3701,3703,3705,3707,3709,3711,3713,3715,3717,3719,3721,3723,3725,3727,3729,3731,3733,3735,3737,3739,3741,3743,3745,3747,3749,3751,3753,3755,3757,3759,3761,3763,3765,3767,3769,3771,3773,3775,3777,3779,3781,3783,3785,3787,3789,3791,3793,3795,3797,3799,3801,3803,3805,3807,3809,3811,3813,3815,3817,3819,3821,3823,3825,3827,3829,3831,3833,3835,3837,3839,3841,3843,3845,3847,3849,3851,3853,3855,3857,3859,3861,3863,3865,3867,3869,3871,3873,3875,3877,3879,3881,3883,3885,3887,3889,3891,3893,3895,3897,3899,3901,3903,3905,3907,3909,3911,3913,3915,3917,3919,3921,3923,3925,3927,3929,3931,3933,3935,3937,3939,3941,3943,3945,3947,3949,3951,3953,3955,3957,3959,3961,3963,3965,3967,3969,3971,3973,3975,3977,3979,3981,3983,3985,3987,3989,3991,3993,3995,3997,3999,4001,4003,4005,4007,4009,4011,4013,4015,4017,4019,4021,4023,4025,4027,4029,4031,4033,4035,4037,4039,4041,4043,4045,4047,4049,4051,4053,4055,4057,4059,4061,4063,4065,4067,4069,4071,4073,4075,4077,4079,4081,4083,4085,4087,4089,4091,4093,4095,4097,4099,4101,4103,4105,4107,4109,4111,4113,4115,4117,4119,4121,4123,4125,4127,4129,4131,4133,4135,4137,4139,4141,4143,4145,4147,4149,4151,4153,4155,4157,4159,4161,4163,4165,4167,4169,4171,4173,4175,4177,4179,4181,4183,4185,4187,4189,4191,4193,4195,4197,4199,4201,4203,4205,4207,4209,4211,4213,4215,4217,4219,4221,4223,4225,4227,4229,4231,4233,4235,4237,4239,4241,4243,4245,4247,4249,4251,4253,4255,4257,4259,4261,4263,4265,4267,4269,4271,4273,4275,4277,4279,4281,4283,4285,4287,4289,4291,4293,4295,4297,4299,4301,4303,4305,4307,4309,4311,4313,4315,4317,4319,4321,4323,4325,4327,4329,4331,4333,4335,4337,4339,4341,4343,4345,4347,4349,4351,4353,4355,4357,4359,4361,4363,4365,4367,4369,4371,4373,4375,4377,4379,4381,4383,4385,4387,4389,4391,4393,4395,4397,4399,4401,4403,4405,4407,4409,4411,4413,4415,4417,4419,4421,4423,4425,4427,4429,4431,4433,4435,4437,4439,4441,4443,4445,4447,4449,4451,4453,4455,4457,4459,4461,4463,4465,4467,4469,4471,4473,4475,4477,4479,4481,4483,4485,4487,4489,4491,4493,4495,4497,4499,4501,4503,4505,4507,4509,4511,4513,4515,4517,4519,4521,4523,4525,4527,4529,4531,4533,4535,4537,4539,4541,4543,4545,4547,4549,4551,4553,4555,4557,4559,4561,4563,4565,4567,4569,4571,4573,4575,4577,4579,4581,4583,4585,4587,4589,4591,4593,4595,4597,4599,4601,4603,4605,4607,4609,4611,4613,4615,4617,4619,4621,4623,4625,4627,4629,4631,4633,4635,4637,4639,4641,4643,4645,4647,4649,4651,4653,4655,4657,4659,4661,4663,4665,4667,4669,4671,4673,4675,4677,4679,4681,4683,4685,4687,4689,4691,4693,4695,4697,4699,4701,4703,4705,4707,4709,4711,4713,4715,4717,4719,4721,4723,4725,4727,4729,4731,4733,4735,4737,4739,4741,4743,4745,4747,4749,4751,4753,4755,4757,4759,4761,4763,4765,4767,4769,4771,4773,4775,4777,4779,4781,4783,4785,4787,4789,4791,4793,4795,4797,4799,4801,4803,4805,4807,4809,4811,4813,4815,4817,4819,4821,4823,4825,4827,4829,4831,4833,4835,4837,4839,4841,4843,4845,4847,4849,4851,4853,4855,4857,4859,4861,4863,4865,4867,4869,4871,4873,4875,4877,4879,4881,4883,4885,4887,4889,4891,4893,4895,4897,4899,4901,4903,4905,4907,4909,4911,4913,4915,4917,4919,4921,4923,4925,4927,4929,4931,4933,4935,4937,4939,4941,4943,4945,4947,4949,4951,4953,4955,4957,4959,4961,4963,4965,4967,4969,4971,4973,4975,4977,4979,4981,4983,4985,4987,4989,4991,4993,4995,4997,4999,5001,5003,5005,5007,5009,5011,5013,5015,5017,5019,5021,5023,5025,5027,5029,5031,5033,5035,5037,5039,5041,5043,5045,5047,5049,5051,5053,5055,5057,5059,5061,5063,5065,5067,5069,5071,5073,5075,5077,5079,5081,5083,5085,5087,5089,5091,5093,5095,5097,5099,5101,5103,5105,5107,5109,5111,5113,5115,5117,5119,5121,5123,5125,5127,

- C22H16O6 Dibenzanthracene, 2716¹
 Dibenz[*a,h*]phenanthrene, 3989¹
 Pentacene, 2141¹
 6,13-Pentacenediyl, 6,13-dihydro 2141¹
 3989¹, 5133¹
- C22H16O6 1,4-Naphthoquinonemine 2
 amino-5,6-dibromo-*N*-phenyl 940¹
C22H16O6 2,5-Piperazinedione, 3,6-bis
 (3,5-dibromo-4-hydroxybenzyl) diacetate, 288¹
 2,5-Piperazinedione, 3,6-bis(3,5-dibromovaleryl), diacetate, 288¹
C22H16O6 ClNO₂ Osamyl chloride *N*-*N*-di-2-naphthyl, 294¹
C22H16O6 Cl₂ Benzolulene, 2,3-dichloro-8-*di*-phenyl, 1237¹
C22H16O6 Cl₄ Indao 1,2,2-tetrachloro-3-*di*-phenyl methylene, 1238¹
C22H16O6 Cl₂CuN₂O₂ Diquinolone pte trichloro acetate, 683¹
C22H16O6 N₂O₂ 1,2,6-Naphthazodione 3 (2-naphthyl) isomer 294¹
C22H16O6 N₂O₂ 3,3'-Dithionaphthene [a-*h*]thiazole 8,8-dione 2,2-tetramethyl, 450¹
C22H16O6 N₂O₂ 3,3'-Dithionaphthene [a-*h*]thiazole 2,2-bis(3,5-dibromo-6,6-dimethyl) 450¹
C22H16O6 N₂O₂ Fluoran dimethyl 4-*di*-nitro 341¹
C22H16O6 N₂O₂ Pyridazo[4,5-*g*]thiazine of diphenyl 1821¹, 1822¹
C22H16O6 N₂O₂ α -Benencarbaol picate 2-*di*-phenyl
C22H16O6 Ketone 8-hydroxy-*qu*-nolyl phenyl picate 106¹
C22H16O6 N₂O₂ 1-thialamine acid *N*-*N*-(4,8-dinitro-*m*-phenoylethyl)ie 314¹
C22H16O6 N₂O₂ 1-(4-Pyridyl)-*m*-thiazine picate picate 3099¹
C22H16O6 O Comp m 236¹ from 2(4-*h*) from 8,8-diphenylbenzofulvene 1239¹
 6,13-Pentacenediyl 6,13-dihydro cyclo peroxide, 2141¹
C22H16O6 O₂ 1,1-Dinaphthalene 8,8-dicarboxylic acid 4572¹
C22H16O6 O₂ 2-Naphthoic acid 1,1-dithiols 2721¹
C22H16O6 O₂ Benzoic acid *p*-*p* (*p*-phenylene) carbonyl, 5673¹
C22H16O6 O₂ Ellagic acid tetracetate 2116¹
C22H16O6 Br Beotofulvene, bromo 8,8-diphenyl 1237¹, 1238¹
 Ethylene, 2-bromo-1,1-*di*-1-naphthyl 1516¹
C22H16O6 BrN₂O 1-*N*-Naphthoquinonemine 2-amino-6-bromo-*N*-phenyl 946¹
C22H16O6 BrO₂S 1-Thionaphtheneacetic acid 2-bromo-*o*-*di*-phenyl (?) 2141¹
C22H16O6 Cl₂ Benzofulvene chloro 8,8-diphenyl 1237¹, 1238¹
C22H16O6 ClN₂O₂ Glyoxime chlorophenyl *di*-Ba deriv 1490¹
C22H16O6 NO Indeno[1,2-*g*]indole 5-benzoyl 5,10-dihydro- 1-23¹
C22H16O6 N₂O₂ Oxime, m 240¹ of compd from mono Br deriv of dibenzofulvene 4235¹
C22H16O6 N₂O₂ 1-Anthraquinonecarboxylic acid 2-methyl 2909¹
 1,2-Benzopyran, 2-benzalene-3-phenyl 4882¹, 4883¹
 Oxamic acid *N*-*N*-*di*-2-naphthyl, 294¹
C22H16O6 N₂O₂ Anthraquinone, 1-amino 2-phenacyl mercapto-, 2723¹
C22H16O6 NO₂ Acid m 171¹ from 1-phenyl 3-phthalidene 2-ketodione 2,3-dihydride, 294¹
C22H16O6 NO₂ Fluoran 2,7-dimethyl 4-nitro-, 541¹
C22H16O6 N₂O₂ Chalkone 3,4-methylenedioxy 4'-nitrophenylacetate 2127¹
 2(1)-Naphthalenone 1-(2-hydroxy 1-naphthyl)mercapto 1-nitro-acetate 4257¹
C22H16O6 N₂ Imidazo[4,5-*g*]quinoline 2,3-*di*-phenyl 3112¹
 Rn inuline 4582¹
C22H16O6 Anthra[2,1-*h*]pyrrole 1,2-dione phenylhydrazide 940¹
C22H16O6 N₂O₂ (4) Imidazoline 4-(*o*-nitrobenzyl) 1,2-diphenyl 3342¹
 4(1) Quinoxaline 3-dibenzoylamino- 4882¹
C22H16O6 N₂O₂ 1-benzanthrene methoxymethylene diacyl picate 3653¹, 3654¹
C22H16O6 N₂O₂ 1-Methyl 2-(*m*-nitrophenyl)quinoline picate 206¹
C22H16O6 O₂ 2-Anthra[9,1-*h*]furazoyl 2-hydroxy 3-methyl 2-phenyl 3990¹
C22H16O6 Benzofulvene 8,8-diphenyl 1237¹
 Ethylene *a*-*di*-1-naphthyl 1516¹
 Isotene dihydro 2141¹
C22H16O6 BrN₂O₂ Phthalazine 4-acetic acid 1-hydroxy 3-(2,6-dibromo 4-nitrophenyl) 1,3-dihydro amide 4273¹
C22H16O6 BrO₂ 1,1-Dinaphthyl 6,6-dibromo 2,2-dithioxy 1-20¹
C22H16O6 BrO₂ 1-(4-Naphthofurazone 2-bromo-*o*-romovanillyl) acetate 3340¹
C22H16O6 ClN₂O₂ Phthalazine 4-acetic acid 1-hydroxy 3-(2,6-dibromo 4-nitrophenyl) 1,3-dihydro amide 4273¹
C22H16O6 N₂O₂ 5639¹
C22H16O6 N₂ Indeno[2,3-*g*]quinoline 11-amino 3112¹
C22H16O6 N₂O₂ Oxamide *N*-*N*-*di*-2-naphthyl 294¹
 1-*o*-Pyrazolone 4-benzal 1,2-diphenyl 2142¹
C22H16O6 N₂O₂ Benzocyclopent[*h*]indole 7-lensoyl 7,8,9,10-tetrahydro 5(?)-nitro- 1533¹
C22H16O6 N₂O₂ Indeno[1,2-*g*]indol 5a(5)-ol 5-benzoyl 10,10a-dihydro 10a-nitro 1-23¹
C22H16O6 N₂O₂ Maleic anhydride compd with benzalene 2419¹
C22H16O6 N₂O₂ Quinoxaline 2,4-bis(carboxy)amino HCl 5899¹
C22H16O6 N₂O₂ 1-Methyl 2-phenylquinolinium picate 206¹
C22H16O6 N₂O₂ Isoquinoline 1-*p*-anisyl, picate, 2973¹
C22H16O6 O 1,2-Benzopyran 2-benzal-3-phenyl, 4882¹
C22H16O6 O₂ 2-Anthracic acid benzyl, 5420¹
 9-Anthracic acid 2-phenyl, acetate, 4540¹
C22H16O6 O₂ 1-Thionaphtheneacetic acid, *o*-*o*-diphenyl (?) and *N*-*N*-*di*-2143¹
C22H16O6 O₂ Fluoran dimethyl, 5415¹
 9-Fluoreneboxylic acid, 9-benzoyl, Me ester 420¹
C22H16O6 O₂ 2-Naphthal, 1,1'-thio-, acetate, 4257¹
C22H16O6 O₂ 2-Anthracic acid benzylidenehydroxy-*l*-*l*-, 5420¹
 12-Naphthalenediol, diacetate, 3645¹
C22H16O6 O₂ 1(2)-*p*-Naphthofurazone, 2-vinyl, acetate, 3340¹
C22H16O6 O₂ Maleic anhydride, compd with *o*-*o*-diphenylethylene, 2419¹

- $C_{22}H_{18}O_2S_2$ Quinol 4,4 (1,5 naphthylenedisulfonyl) 3340^a
 $C_{22}H_{18}O_2$ Anthraquinone 2,3,6,7 tetrahydroxy, tetraacetate 934^a
 $C_{22}H_{17}AsN_2O_2$ Benzenearsonic acid, *p*-[4 (2,4-dihydroxyphenylazo)] 1 naphthylazo, 9
 $C_{22}H_{17}BrClO_2$ Butyric acid, β -(*p*-bromophenyl) α - γ bis(*p*-chlorophenyl) β hydroxy, 7956
 $C_{22}H_{17}Cl$ Propene 3-chloro 3,3-diphenyl 1 *p*-tolyl 1061^a
 $C_{22}H_{17}ClO$ Anisole *p*-(chlorodiphenylmethyl) 4533^a
 $C_{22}H_{17}ClO_2$ 2-Benzyl-3-phenylbenzopyrylium perchlorate 4582^a
 $C_{22}H_{17}N$ Pyrrole 1,2,3-triphenyl 3995^a
 $C_{22}H_{17}NO$ Benzo[cyclopent(β)indole 7-benzoyl 8,9,10-tetrahydro- 1022^a
 $C_{22}H_{17}NO_2$ 2-Benzyl-3-phenyl 2431^a
 $C_{22}H_{17}NO_2$ Acetamide (benzylfluoryl), 5158^a
 $C_{22}H_{17}NO_2$ Propionic acid α -cyano- β -triphenyl 2994^a
 $C_{22}H_{17}NO_2$ Benzopyran methoxy 6-nitro-2,3-diphenyl 4583^a
 $C_{22}H_{17}NO_2S$ Chalcone 4-methoxy 4-(*p*-nitrophenyl)mercapto, 2127^a
 $C_{22}H_{17}N_2O$ Quinoline 2-anthracenyl 3-benzamido-334^a
 $C_{22}H_{17}N_2O_2$ Citronamamide α -benzamido- α -nitro- 3342^a
 $C_{22}H_{17}N_2O_2$ Glyoxylhydroxamamide α -phenyl, α -mercapt, di Br deriv 3623^a
 $C_{22}H_{17}N_2O$ Anthracene 9,10-dimethyl, picrate, 3310^a
 $C_{22}H_{17}N_2O$ Phenanthrene 1,7-dimethyl, picrate, 1232^a
 $C_{22}H_{17}N_2O$ Phenanthrene 1,7-dimethyl, styphate 1232^a
 $C_{22}H_{17}N_2O$ Triazene 2-(2,3-d-keto-5-phenyl) 1-pyrrolyl, 1 (*p*-nitrophenyl) 3-phenyl, 699^a
 $C_{22}H_{17}N_2O_2$ Philhalazine 1-benzyl 7-methoxy, picrate, 297^a
 $C_{22}H_{17}NaO_2$ 1,2-Benzopyran 2-ol, 2-benzyl 3-phenyl (?), Na deriv, 4582^a
 Δ^2 2-Butenone 1,3-diphenyl-4-salicyl (?) Na deriv, 4582^a
 $C_{22}H_{17}$ Benzene, *p* bis(α -methylbenzyl), 4239^a
 $C_{22}H_{17}BrNO$ Chalcone, β -benzylamido- α -bromo-, 4248^a
 $C_{22}H_{17}BrNO_2S$ Acenaphthene-sulfonic acid bromo-, naphthylamine salt, 1518^a
 $C_{22}H_{17}BrNO$ Oxindole, 5-bromo 3-(*p*-dimethylaminophenyl)amino 1-phenyl, 292^a
 $C_{22}H_{17}BrN_2O_2$ 2,5-Piperazinedione, 3,6-bis (3,5-dibromo 2-hydroxybenzyl) diacetate, 288^a
 $C_{22}H_{17}ClN_2$ Quinaldine, α ,4-diamino 3-chloro-, and HCl 2430^a
 $C_{22}H_{17}ClO_2$ Butyric acid, α - γ bis(*p*-chlorophenyl) β hydroxy β -phenyl, 2986^a
 $C_{22}H_{17}NO_2$ Phenol *p*-(6-amino-2-naphthyl amino), P 5434^a
 2 Pyrrolidone, 1,3-diphenyl 3-phenylamino-, 639^a
 $C_{22}H_{17}NO_2S$ 1,5-Naphthalenedisulfonamide 3340^a
 $C_{22}H_{17}NO_2S$ Benzenesulfonic acid, *p*-(*p*-nitrophenylazo), naphthylamine salt, 287^a
 $C_{22}H_{17}NO_2$ 1,2-Butanedione 1 (2,4-dihydroxyphenyl), 1 (2,4-dimethoxyphenyl)hydrazonol, 1510^a
 $C_{22}H_{16}O$ Anthrone, dimethyl 10-phenyl, 2994^a, 3646^a, 4540^a
 $Ethanol$, 1,1-di 1-naphthyl, 1516^a
 $Ether$, methyl triphenylpropargyl, 1501^a
 $C_{22}H_{16}OS$ Thioanaphthene, 5-methyl 1-phenonyl 2-*p*-tolyl, 4263^a
 $C_{22}H_{16}O_2$ Acrylphenone, β , β -diphenyl, 4533^a
 $Benzene$ *p*-di *p*-tolyl, 5673^a
 $1,2$ Benzopyran, 3-methoxy 2,4-diphenyl-, 5413^a
 $1,2$ Benzopyran 2-ol, 2-benzyl-3-phenyl (?), 4582^a
 $2,2$ Binaphthyl, 1,1'-dimethoxy, 4255^a
 Δ^2 2-Butenone, 1,3-diphenyl 4-salicyl- (?), 4582^a
 $2(1)$ Naphthalenone, 1-methyl 1 (1-methyl-2-naphthoxy), 947^a
 $Naphthalen$, ethylenedioxy, P 1261^a, 5400^a
 2 Propene 1,1,3-*p*-anisyl-1,1-di-phenyl, 4533^a
 $C_{22}H_{16}OS_2$ Disulfide, bis(2-methoxy 1-naphthyl), 3330^a
 $C_{22}H_{16}O_2$ Acetic acid, benzenyldiphenyl, Me ester, 4254^a
 $Acetophenone$, α -salicyl, α -toluyl, 4552^a
 $1,2$ Cyclohexenedicarboxylic anhydride, 3-phenyl 6-allyl, 1514^a
 $C_{22}H_{16}O_2S$ Benzene acid, α -(6-*p*-tolylmercapto-m-tolyl), 1825^a
 $C_{22}H_{16}O_2$ Benzophenone, 4-hydroxy 2,6-dimethoxy, benzoate, 4250^a
 $C_{22}H_{16}O_2$ 1,2,4,5-Benzene-tetrol, 3,6-diphenyl, 1,4-di-acetate, 3530^a
 $Mecon$, 2 (hydroxynaphthyl), acetate, 4519^a
 $C_{22}H_{16}O_2$ 4-Chromanone 3 (3,4-dihydroxybenzyl) 7-hydroxy, triacetate, 1534^a
 $1,8,9,10$ -Phenanthrenetetracarboxylic acid, tetra Me ester, 3337^a
 $C_{22}H_{16}S_2$ Benzene, *m*-bis(α -methylbenzenylmercapto), 1527^a
 $C_{22}H_{16}BrO_2S$ Δ^2 1,4-Cyclohexadienedimalonic acid, 2 (4-bromo 2-methyl)-3,6-diketo-5-methyl, 5410^a
 $C_{22}H_{16}N$ Amaline, *N* (α , γ -diphenyl Δ^2 -butenylidene), 252^a
 $C_{22}H_{16}NO$ Anthrone, 10-anthracene-dimethyl, 2994^a, 3646^a, 4547^a
 $Oxindole$ 3,3-dibenzyl, 5423^a
 Δ^2 2-Pyrrolidone, 1,4,5-triphenyl 3994^a
 $C_{22}H_{16}NO_2S$ Malonamide acid α -*m*-diphenyl- β -thio, Me ester, 4251^a
 $C_{22}H_{16}NO_2$ Malonamide acid, *N* triphenylmethyl, 2994^a
 $C_{22}H_{16}NO_2S$ Benzene acid, α -(6-*p*-tolylmercapto-m-tolyl) oxime, 1829^a
 $C_{22}H_{16}N_2$ 1,3,4-Triazole, 2-benzyl 5-phenyl 1-m-tolyl, 2954^a
 $C_{22}H_{16}NO_2$ Oxindole, 3-(*p*-dimethylaminophenyl)amino 1-phenyl, 294^a
 $1,3$ 4-Triazole 1-*p*-aniryl 2-benzyl 5-phenyl, 2954^a
 $1,3$ 4-Triazole, 1-*p*-phenetyl 2,5-diphenyl, 2954^a
 $C_{22}H_{16}N_2OS$ Bened, thio-4-*p*-tolylbenzocarbazon 1224^a
 $C_{22}H_{16}N_2O_2S$ Benzenesulfonic acid *p*-phenylazo, naphthylamine salt, 287^a
 $C_{22}H_{16}$ 1,3,5,7,9-Decapentaene, 1,10-diphenyl 1719^a
 1 Propene 2-methyl 1,1,3-triphenyl, 4256^a
 $C_{22}H_{16}BrN_2O_2$ Bis(*p*-bromobenzenyl)dimethyl ammonium picrate, 91^a

- C₂₂H₁₁Cl₂ *p* Xylene, *m,m'*-dichloro-*m,m'*-di *p* tolyl, 56°3'
- C₂₂H₁₁N₂ Imidazole, 2,3-dihydro-2,4-diphenyl 1 *p* tolyl, 5141
- C₂₂H₁₁N₂O Δ²-Pyrroline, 3 *p* amyl 1,5-di phenyl, 1819
- C₂₂H₁₁N₂O₂ Benene, *p*-di *p* tolyl, dimine, 5673
- o-Benzenediacetamide 3346
- Oxamide N' phenyl N'-di *p* tolyl 294
- C₂₂H₁₁N₂O₂ Benetole 2,4-dibenzamido-, 2984
- Urea α-(o-benzoylphenyl) α ethyl *p* phenyl, 1240
- C₂₂H₁₁N₂O₂ Ciesotoluide, α- (*p*-hydroxyphenyl carbamyl) *p* 36°0'
- Phthalimide, N, N' hexamethylenclos 452
- C₂₂H₁₁N₂ 4,4-Bipyridine compd with benzene, 5420
- C₂₂H₁₁N₂O Quinazoline, 2,4-diamino-, acetate 5991
- C₂₂H₁₁N₂O₂ Acetophenone α benzylmethyl amino-, picrate 91
- C₂₂H₁₁N₂O₂ Anabasine dipicrate 331
- C₂₂H₁₁O Benzophenone 5-benzyl-2,4-dimethyl 3990
- Benzophenone *p* methyl *p* (*p* methyl benzyl), 5673
- 2-Eulanone 4-triphenyl 2991
- Ketone 2-methyl 1-naphthyl 3,6,7,8-tetrahydro-2-naphthyl 271
- C₂₂H₁₁O₃ Propiophenone *p* phenyl *p* tolyl acetate, 4540
- C₂₂H₁₁O₃ Isonicotinic acid *p* naphthyl Me ester 4204
- C₂₂H₁₁O₃ Ethylsulfenic acid 1-phenoxy-2,2-diphenyl Et ester 4263
- C₂₂H₁₁O₃ Benzoic acid 2-methoxy-4,6-di phenyl Et ester 3327
- Bulonic acid *p* hydroxy α *p* triphenyl, 2986
- C₂₂H₁₁O₃ 1,2-Cyclohexenedicarboxylic acid 3 phenyl-6-oxyl 1514
- C₂₂H₁₁O₃F₂ Ethylenephosphonic acid 2,2-*p*-phenylenebis(2-phenyl 4239)
- C₂₂H₁₁O₃ 4-Chromanone 3 (3,4-dihydronaphthalenyl) 7-hydroxy acetate 1534
- 4-Chromanone 7,8-dihydroxy 3-veratral diacetate 1534
- C₂₂H₁₁FN₂O₂ Dibenzylamine, *p* fluoro-N *p* di methyl picrate 923
- C₂₂H₁₁IN₂ Ethylred 1910
- C₂₂H₁₁N₂ Quinaldine 1,2,3,4-tetrahydro-α,3-di phenyl, 2431
- C₂₂H₁₁NO Benzophenone *p* methyl *p* (*p* methyl benzyl) oxime 3673
- C₂₂H₁₁NO₂ Acetic acid *p* dimethylammonium, 11-diphenyl 1235
- C₂₂H₁₁N₂O Benzaldehyde 2-benzyl 4-*p* tolylsulfoncarbazone 2701
- 2,4-dibenzylsulfoncarbazone, 2701
- C₂₂H₁₁N₂O₃ Benzox 1-hydro-4-*p* tolylsulfoncarbazone, 1222
- C₂₂H₁₁N₂O₂ Urea, α-(*p*-benzoylphenyl)-α ethyl *p* phenyl, oxime, 1240
- C₂₂H₁₁xy Dibenzanthracene, octahydro- 2717
- p* Xylene, α, α-di *p* tolyl 5673
- C₂₂H₁₁Br₂O₂ Spirocamphane 2,6-xanthene 3,6-diol, dibromide deriv 3644
- C₂₂H₁₁X₂O₂ Spirocamphane 2,6-xanthene 3,6-diol, di K deriv 3644
- C₂₂H₁₁N₂ Indeno(2,3-*p*)quinoline, 11-amino 6a,7,8,9,10,10a-hexahydro-, and -HCl 3347
- C₂₂H₁₁N₂O₂ 2,5-Piperazinedione, 3,6-bis(*m*-hydroxybenzyl) diacetate, 288
- C₂₂H₁₁N₂O₂ Hydrazine bis(*p* 3-indolylpropionyl) 4580
- C₂₂H₁₁N₂O₂ Triacetyl deriv, *m* 273' of compd *m* 208' 5128
- C₂₂H₁₁N₂O₂ Anthranicodisulfonic acid creatinine salt 101
- C₂₂H₁₁N₂O₂ Isophthalaldehyde bis(1-amino-oxymecarbazone) 3634
- C₂₂H₁₁N₂O₂ Theotomine 1 (*p*-aminopropyl) picrate 1031
- C₂₂H₁₁N₂O₂ α-Xylidenediamine 4,5-dimethoxy picrate 122
- C₂₂H₁₁O₂ 1,2-Propanediol 2-benzyl 1,3-di phenyl 4816
- m* *p*-Xylenediol α, α-di *p* tolyl 56°3'
- C₂₂H₁₁O₂ 1,2-Propanediol 3-methoxy 1,3-tri phenyl 941
- C₂₂H₁₁O₂ Benzene 1,4-dimethoxy 2,5-di *p* tolyl, 453
- Carbinol transyl 99
- Cyclohexanecarboxylic acid 3-benzyl-2,4-diketo-6-phenyl, Et ester, 687
- Hydroquinone 2,6-bis(methylamyl) 3978
- C₂₂H₁₁O₂ α-Veratrine acid 6 (2-methoxy 1-naphthylmethyl), Me ester 4519
- C₂₂H₁₁O₂ Acetyl deriv, *m* above 300' of compd from trilobinemetethylmalhale 361 2731
- Phloroglucinolcamphorene 940
- C₂₂H₁₁O₂ Daidzin methyl 6873
- C₂₂H₁₁S₂ Benzene *m* bis(phenylthio)mercaptan 152
- C₂₂H₁₁S₂Br Benzylthylidiphenylazanium so dide CHBr compd 282
- C₂₂H₁₁S₂Br Benzylthylidiphenylazanium iodide CHBr compd 282
- C₂₂H₁₁NO Naphthal (α 1-piperidylbenzyl), 512, 2715
- C₂₂H₁₁NO₂ Cinchonone 6,8-dimethyl, Bu and isobutyl esters *p* 5013
- C₂₂H₁₁NO₂ Cinchonone 4-hydroxy 5-isopropyl 2-methyl Et ester 4881
- C₂₂H₁₁NO₂ Benzenylphenanthridine 3,6-dihydro-2,3,7,8-tetramethoxy 5-methyl 5599
- C₂₂H₁₁NO₂ See Narceine
- C₂₂H₁₁N₂ Acetophenone, α *p*-toluenemethyl phenylhydrazine 403
- C₂₂H₁₁Br₂N₂O₂ 2-Pyrrolidonecarboxylic acid, 4 (8-bromovinyl) 5-isopropyl 3-methyl Et ester azeot, 1520
- C₂₂H₁₁Cl₂O₂ Amoxic acid, 3,2 (β *p*-dichloroethyl idene)bis di Et ester, 5412
- C₂₂H₁₁Cl₂N₂PT 2-Ethylsulfonammonium chloro platinate 4000
- C₂₂H₁₁N₂O Camphor, 3 (*p*-aminophenyl)imino, 59
- C₂₂H₁₁N₂O₂ Cinchonone, β-diethylaminoethyl ester and di-HCl, 4583
- C₂₂H₁₁N₂O₂ Vomocine, 3391
- C₂₂H₁₁N₂O₂ α-Naphthol oxime benzyl, 2993
- C₂₂H₁₁O 2-Buta-1-ol, 4-cyclohexyl 1,1-di phenyl, 487
- C₂₂H₁₁O₂ Cyclobutane 1,2-diphenyl 3,4-dipropionyl, 1507
- C₂₂H₁₁O₂ Δ²-3-Heptenone, 1 *m*-anisyl 4 (*m*-methoxybenzyl), 2132
- 1-Naphthaleneacetylenic acid, benzyl ester 2994

- Sp roscampane 9 xanthone 3 6
diol 3644¹
- C₂₂H₂₁O₄ Tussilic acid mono Bu ester 1000²
- C₂₂H₂₁O₄ m Dioxane 5 5-dicarboxyl 2 2-di-
methyl dibenzoate 1507²
- C₂₂H₂₁O₄ Tectonidin 339³
- C₂₂H₂₁ClO₄ 3 4 Et 1 4 pyranol 2 2 6 6 -
tetracarboxylic acid tetra Et ester
mon persulfate 2426¹
- C₂₂H₂₁NO₄ Cyclobutanecarboxamide V ethyl
2 3 diphenyl 4 piropinyl 1507²
- C₂₂H₂₁NO₄ Truxilamide acid Bu ester, 1500¹
- C₂₂H₂₁NO₄ See Calchene
- C₂₂H₂₁N₃O₄ Cannabinol trinitro-, Me ether,
3732¹
- C₂₂H₂₁P₂ Pentaphosphane diethyltriphenyl
2702¹
- C₂₂H₂₁ClNO₄ Cocleide chloro- acid tartrate
3659¹
- C₂₂H₂₁Cl₂N₂O₄ Ft 4-Pyrazole 2-methyl 1
phenyl methyl chloroplatinate 3342¹
- C₂₂H₂₁INO₄ Ilaourulobunemethylmethane meth-
iodate 2732¹
- C₂₂H₂₁INO₄ Allodihydroxyhydrocryptopine
methiodate 120¹
- C₂₂H₂₁N₂O₄ Camphor 3 (p aethioamino) 66¹
Ketone 1 2 diethylaminoethyl 2 methyl 3
indyl phenyl P 3249¹
- C₂₂H₂₁N₂O₄ 2-Cyclohexanediacetate 3246¹
1 1 Cyclohexanediacetamide 3 methyl,
4234¹
- C₂₂H₂₁N₂O₄ 1 2 Cyclooctanediol decarbamate,
3972¹
- C₂₂H₂₁N₂O₄ 3; Acetic acid [1 (p-dimethylamino-
styryl) 3 methyl 4 benzothiazolyl]
mercapto] methosulfate 4301¹
- C₂₂H₂₁N₂O₄ Piperidine 1 (1 2 3 4 tetrahydro-1
methoxy 2 naphthyl) picrate 2139¹
- C₂₂H₂₁N₂O₄ 2-Atharufendiolone acid, crea-
tine salt 101¹
- C₂₂H₂₁O₄ P 1337¹
1 Naphthaleneglyoxalic acid, methyl ester
2944¹
- Pelargonophenone p hydroxy-, benzoate
1239¹
- C₂₂H₂₁O₄ Adipic acid p γ-diphenyl di Et ester
98¹
- Naphthalic acid methyl acid ester and
salt, 2713¹
- C₂₂H₂₁O₄ 1,10 Decanedione 1 10 bis(2 4-di-
hydroxyphenyl), P 273¹
- Derivat dihydro-, Me ether, 103¹, 5423¹
- Derivative acid, methyl 103¹, 4563¹
- C₂₂H₂₁O₄ 2 Glucosaminol O-tetraacetyl 1233¹
- C₂₂H₂₁IN₂O₄ Methiodide decomp 230¹, of
compd m 194-6°, 5479¹
- C₂₂H₂₁NO₄ Des-4 methyltetrahydroanhydro-
cryptopine 1202¹
- C₂₂H₂₁NO₄ Glucosamine, V (p methoxybenzyl
idene) tetraacetate, 3369¹
- C₂₂H₂₁N₂O₄ Galactose, pentaacetate, p-methoxy-
phenylhydrazones, 3402¹
- C₂₂H₂₁F₂N₂O₄ 3,509¹
- C₂₂H₂₁INO₄ Anhydrocryptopine, tetrahydro-,
methiodide 1252¹
- Glucosine methiodide, 518¹
- C₂₂H₂₁N₂O₄ Quinine ethyl, 18,98¹
- C₂₂H₂₁N₂O₄ See Ichthirins
- C₂₂H₂₁N₂O₄ Oxamide, N, N - bis(2 4 - dimeth-
oxybenzyl), 3405¹
- C₂₂H₂₁N₂O₄ Galactose, pentaacetate phenyl
hydrazones, 3402¹
- C₂₂H₂₁N₂ See Calpamine
- C₂₂H₂₁N₂O₄ Etheno[4 8]pynodamine, 1, 2 3a, 4a,
6, 7 7a 8a octahydro 3, 5, 8 trimethyl,
picrate, 1530¹
- C₂₂H₂₁O₄ Phenol, p-methyl-, benzoate, 1229¹
- C₂₂H₂₁O₄ Anthracene, 9, 10 - diethyl 9, 10-di-
hydro 2, 3, 6, 7 - tetramethoxy, 4538¹
- Crocecin da Me ester, 5142¹
- C₂₂H₂₁NO₄ 1 Piperidine-ethanol, a phenyl a-
lyphenylpiopyl), HCl, 4276¹
- C₂₂H₂₁NO₄ Compd, m 127°, from nitration
of hydromethylmagostin, 4277¹
- C₂₂H₂₁NO₄ Desorycodone, dihydro-, acid tar-
trate, 3606¹
- C₂₂H₂₁NO₄ 3 Sinomenine, methyl, methosulfate,
4531¹
- C₂₂H₂₁NO₄ Codeine, dihydro-, acid tartrate,
3004¹
- C₂₂H₂₁ClO₄ 2; Ethylmethylphenacylsulfonium
cadmate tetraiodide, 690¹
- C₂₂H₂₁Cl₂O₄ 3; Ethylmethylphenacylsulfonium
mercurate tetraiodide 690¹
- C₂₂H₂₁HgO₄ Hydromenamine acid, m (acetoxy
mercant) p-methoxy-, benzyl ester, 1231¹
- C₂₂H₂₁INO₄ Sinomenine, bis(hydroxymethyl),
methiodide, 2147¹
- C₂₂H₂₁N₂O₄ Aspidospermine 1002¹
- Benzoyl deriv, m 195°, of base from
lupanine and chloroacetic, 3006¹
- C₂₂H₂₁O₄ 3 Benzylaceticarboxylic anhydride,
5156¹
- C₂₂H₂₁O₄ Pyridine II, 666¹, 1024¹
- C₂₂H₂₁O₄ Methyl ester, m 240°, of lactone
acid from duodephanthondiacid, 5173¹
- C₂₂H₂₁O₄ Malonic acid, α(m and β) xylenebis-,
tetra Et ester 936¹
- C₂₂H₂₁Br₂N₂O₄ Lysine, γ¹ benzoyl γ² [V,
α-bromoisopropyl]alanine], 2974¹
- C₂₂H₂₁O₄ Avarcardic acid, 2956¹
- C₂₂H₂₁O₄ Alachol, dihydroxy-, benzoate, 2982¹
- C₂₂H₂₁N₂O₄ Lysine, N² benzoyl N¹ (N -
leucylalanine), 2974¹
- C₂₂H₂₁N₂O₄ Cyclohexylamine 4 (β cyclo-
hexylethyl) N¹, V dimethyl, picrate,
5418¹
- C₂₂H₂₁O₄ 4, 7 Hendecadecan 6 ol, 6 - (3, 5 -
dimethyl 1 - pentenyl) - 2, 2, 10, 10 -
tetramethyl, 456¹
- C₂₂H₂₁O₄ Boronol 2 2' ethylenebis-, 2710¹
- C₂₂H₂₁O₄ Isogathic acid, dihydro-, of Me ester
1232¹
- C₂₂H₂₁O₄ Diphenylerythritol, benzacetate,
1486¹
- C₂₂H₂₁Br₂O₄ Corchorin, bromo-, dibromide,
3637¹
- C₂₂H₂₁N₂O₄ Isoheptylammon, γ ethyl + β -
isopropyl, picrolinate 1809¹
- C₂₂H₂₁ Compd, b.p. 193-200°, from benzene
treated with H₂SO₄, 3463¹
- C₂₂H₂₁Cl₂P₂Ft Trimethyl 2 5 - xylisphospho-
monochloroplatinate, 2702¹
- C₂₂H₂₁N₂ Benzamidozole, 2 pentaacetyl, 1800¹
- C₂₂H₂₁O₄ 2 5 Xylitol, 4 - dodecyl acetate,
929¹
- C₂₂H₂₁O₄ Anacardic acid, tetrahydro-, 2956¹
- C₂₂H₂₁O₄ Isogathic acid, dihydro-, of Me ester,
1232¹
- C₂₂H₂₁O₄ Tobanic acid from a amyrin and O₂
2959¹
- C₂₂H₂₁O₄ Corchorin 3637¹
- C₂₂H₂₁ Hexadecan 1 phenyl 3469¹
- C₂₂H₂₁N₂O₄ Cetylamine picrate 2026¹
- Tetra-n-butylammonium picrate, 2026¹
- C₂₂H₂₁N₂O₄ Piperitone dimer semicarbazone,
1513¹

- C₂₃H₁₆O₂ Dibasic acid, from α -amyrin and O₂ 2989⁹
- C₂₃H₁₆O₂ Digitalin, 349⁹, 2196¹
- C₂₃H₁₆F Phosphine, doctylphenyl, 5662⁹
- C₂₃H₁₆O₂ Behenic acid, 1134¹
- C₂₃H₁₆O₂ Acetic acid (3 β methoxyloxy) methyl ester, 5672¹
- C₂₃H₁₆O₂ Stearic acid, α -acetyl β keto- Et ester, 3978⁹
- C₂₃H₁₆O₂ Agonic acid 1210¹
- C₂₃H₁₆BrO₂ Behenic acid bromoketo- 71⁹
- C₂₃H₁₆ClO₂ Behenic acid, chloroketo- 71⁹
- C₂₃H₁₆NO₂ Hydnoic acid β -diethylamino-ethyl ester, 1775⁹
- C₂₃H₁₆O₂ 10 Heneicosenone 12 methyl 3312⁹
- C₂₃H₁₆O₂ (See also *Brassicid acid*, *Isenic acid*)
Oleic acid, Bu ester F 2441⁹ 4625⁹
- C₂₃H₁₆O₂ Crocetin tetradecahydro di Me ester 5143¹
- 5 m Doxanol, 2 2 dimethyl palmitate 76⁹
- 1 20-Eicosanedicarboxylic acid 3320⁹ 3321¹
- O₂H₁₆NO₂ Undecylic acid α α dibromo 3314¹
- C₂₃H₁₆NO₂ Nonylamide β amyl V cyclohexyl acid oxalate 1809⁹
- C₂₃H₁₆O₂ Behenic acid 189 277¹ 1801¹
- Stearic acid Bu ester 3182¹ 4625⁹
- O₂H₁₆O₂ Phellonic acid 3320⁹ 3321¹
- C₂₃H₁₆I Docosane 1-iodo- 377¹
- O₂H₁₆NO₂ Behenic acid α -amino and HCl 490¹
- C₂₃H₁₆I Docosane 4773¹
- C₂₃H₁₆NO₂ 1 4 Piperazinediethanol α α dibenzyl α α dimethyl and HCl 517⁹
- O₂H₁₆NO₂ 1 4 Piperazinediethanol α α bis(hexyloxy)methyl di HCl 518¹
- O₂H₁₆O 1 Docosanol 277¹
- 8-Pentadecanol 8 heptyl 2113¹
- C₂₃H₁₆Cl₂N O₂ Pt Choline hexoyl chloro plamate 3315¹
- C₂₃H₁₆NO₂ Dibenzoyl- β - β -pyrenenitrile 6 12 dihydro 6 12 diketo- F 1094¹
- O₂H₁₆BrO₂ 3 3 2 α Anthra(bi)phenone 6 11 dione 1 hydroxy β bromobenzoate 2723¹
- C₂₃H₁₆Br₂NO₂ Spiro(isobenzofuran 1(2) 12 xanthene[2 1 β]pyridin) 2 one dibromo 9 hydroxy 5115¹
- C₂₃H₁₆KNO₂ 7,8 β Naphthoquinone 7 12 dione 2 hydroxy 3 phenyl K deriv 947¹
- C₂₃H₁₆O₂ 3 3 2 α Anthra(bi)phenone 1 6 11(2) trione 2 benzal 2723¹
- C₂₃H₁₆NO₂ 3 Benzothioanthracene 6 11 dione, 8(and 9) (phenylamino)methyl 5167¹
- C₂₃H₁₆NO₂ 7,8 β Naphthoquinone 2(1) 7 12 trione 3-phenyl 947¹
- C₂₃H₁₆NO₂ Spiro(isobenzofuran xanthene pyridin)one hydroxy, 5415¹
- C₂₃H₁₆NO₂ Fthalimide N (3 4 dihydroxy 2 anthraquinonylmethyl) 1242¹
- C₂₃H₁₆I₂O 3 Phenolsulfonophthalene 4 5 6 7 tetraodo-, diacetate 511¹
- C₂₃H₁₆N₂O₂ 6,11 β Anthra(bi)azolo(dione 2 (α -acetamidophenyl), 2724¹
- C₂₃H₁₆O₂ α Dibenzanthraquinone 3 methyl 1818¹
- C₂₃H₁₆NO₂ Anhydroxyl α anthraquinonyl ketone oxime, 2996¹
- C₂₃H₁₆NO₂ Fthalimide, V (dibenzyl)methyl, 3645¹
- C₂₃H₁₆ α Dibenzanthracene methyl 2716¹
- C₂₃H₁₆N₂O₂ Naphthol, phenylazo- benzoate 5151¹
- C₂₃H₁₆N₂O₂ β Naphthazolo 1 2 dihydro 2 (β phenylazophenyl)imino 2423¹
- C₂₃H₁₆O₂ Δ^2 Cyclohexadecanone 4 (1 naphthyl phenylmethylene) 5073¹
- C₂₃H₁₆O₂ Fimocene 9 - (3 4 methylenedioxy cinnamal) 1235¹
- C₂₃H₁₆O₂ Anthraquinone 1 - (2 3 xyloxy) 2996¹
- C₂₃H₁₆O₂ 7 8 Benzoflavone 3 4 dihydroxy diacetate 4267¹
- C₂₃H₁₆ Methyl (1 naphthyl)diphenyl 5629¹
- C₂₃H₁₆Br₂O₂ 2 Naphthol phenylazo compd with Br-Br 3122¹
- C₂₃H₁₆Br₂NO₂ Barbituric acid 5 benzyl 5 bromo-1 3-diphenyl 5400¹
- O₂H₁₆N Acridan 5 (1 naphthyl) 297¹
- Quinoline 2 β β diphenylvinyl 1829¹
- C₂₃H₁₆NO₂ Anthraquinone 1 benzoyl ethyl oxime 3338¹
- Anthraquinone 1 (2 3 xyloxy) oxime 2996¹
- Ketone β naphthyl 3 4 d | phenyl 5 isoxazolyl 105¹
- Oxamic acid N N di 2 naphthyl Me ester 2944¹
- 3 Pyrrolizone 2 amyl 4 5 diphenyl 1 oxide 105¹
- 2 4 Xylamide N 1 anthraquinonyl 2996¹
- C₂₃H₁₆N₂O₂ Cinchophen 6 hydroxy benzal hydrate 4883¹
- C₂₃H₁₆N₂O₂ 2 Anthraldehyde 1 acetamido 9 10 dihydro 9 10 diketo phenyl hydrate 947¹
- Quinoline 2 amine 3 benzamide 6 7 methylenedioxy 3142¹
- C₂₃H₁₆N₂O₂ Cinnamamide α benzamide 3 4 methylenedioxy 6 nitro 3342¹
- C₂₃H₁₆N₂O₂ 2 9 Pyridindole 3 4 dihydro 1 phenyl picrate 301¹
- C₂₃H₁₆Br₂NO₂ Anthraquinone 1 [N (β bromomethyl) β tolylsulfonamido] 947¹
- C₂₃H₁₆Br₂NO₂ m Benzenesulfonotoluene 5 bromo 6 hydroxy 2 naphthalene sulfonate 5408¹
- 2 Naphthalenesulfono m toluidene 5 bromo 6 hydroxy benzenesulfonate 5409¹
- C₂₃H₁₆Br₂NO₂ Spiro[pyrazole 3(2) 9 xanthene] 3,6 diol 1 5 4 methyl 2 phenyl dibromo deriv 3644¹
- C₂₃H₁₆NO₂ Anthra[1 10 β]pyrrol 5 oxy 1 2-dihydro-2 xyl 5420¹
- C₂₃H₁₆N₂ 2 Pseudomandelic 3 3 dibenzyl 5425¹
- Quinoxaline deriv m 131 2¹, of quinone from methylpimanthrene 2136¹
- C₂₃H₁₆N₂O₂ Naphthol, phenylhydrazino- benzoate 5152¹
- 3 5 Pyrazolodione 4 (α methylbenzal) 1,2 diacetyl, 2145¹
- C₂₃H₁₆N₂O₂ 1 5 Pentanedione 1 5 bis(8 hydroxy 5 quinoly) and HCl, 2727¹
- C₂₃H₁₆O Carbimol 1 naphthyl(diphenyl), 99¹
- Ketone, dimethylnaphthyl naphthyl, 2716¹
- 2 methyl 1 naphthyl 4 methyl 1 naphthyl, 2716¹

- C₂₃H₃₂N₂O₆ Dimucosine acid, 1,2-dihydro-2,6-methyl-1,4-diphenyl 1, di Me ester, 3998¹
- Titanol, 1,2-di-*p*-amyl 2-sulcylal amino, 1240²
- C₂₃H₃₂N₂O₆ Catecholamine, 3662³
- Isorotenone, isochinone, 3397⁴
- C₂₃H₃₂N₂O₆ Hydrazine, acid azlate 2149⁵
- C₂₃H₃₂N₂O₆ Picrate, m 138-9°, of compd m 36-7°, 1232⁶
- C₂₃H₃₂N₂O₆ Styphnate, m 183-4°, of compd m 36-7°, 1232⁶
- C₂₃H₃₂N₂O₆ Quinoline 2 isalac[1,2,3,4-tetrahydro-, 2922⁷
- C₂₃H₃₂N₂O₆ Hydrazine acetamide- 2149⁵
- C₂₃H₃₂N₂O₆ Phenethylamine N-benzyl 3,4-dimethoxy, picrate 3673⁸
- C₂₃H₃₂N₂O₆ N-ethylcarbamate trimethoxy picrate, 12,6⁹
- C₂₃H₃₂O₆ Benzene, (γ phenoxyl α β phenoxyl ethyl)propyl 1832¹
- C₂₃H₃₂O₆Pb Tri p-allyllead acetate 5406²
- C₂₃H₃₂O₆ Ethanol, 1,1-diphenyl 2,2,4,5-trimethoxyphenyl 4669³
- C₂₃H₃₂O₆ Desoxyisotenolone 5423⁴
- C₂₃H₃₂O₆ Dehydrodihydrorotenol, 3650⁵ 5423⁶
- Rotenone acid 5423⁶
- Rotenol 103⁷
- Rotenone, dihydro- 745⁸ 1251⁹ 5423¹⁰
- C₂₃H₃₂O₆ Rotenolone β dihydro 1251⁹
- Toxarsol dihydro 3649¹¹
- C₂₃H₃₂O₆ Degussa acid 936¹²
- Derris acid 1510¹³ 3339¹⁴
- Rotenone acid, dihydroxy 103¹⁵
- , isodihydroxy 103¹⁶
- C₂₃H₃₂ClN₂O₆ Malachite green, perchlorate 1513¹⁷
- C₂₃H₃₂NO₆ 1-Naphthalenecarboxyl α phenyl α (1 piperidylmethyl) 4276¹⁸
- C₂₃H₃₂NO₆ 2-Naphthol 1 (α methoxy α 1 piperidylbenzyl) 2715¹⁹
- C₂₃H₃₂NO₆ 1,2-Butanol of 4 amino 1 p-amylyl 3,4-diphenyl 103²⁰
- C₂₃H₃₂NO₆ Di p-toluenesulfonamide N (γ phenylpropyl) 2709²¹
- C₂₃H₃₂NO₆ Derris acid oxime 1510²²
- C₂₃H₃₂NO₆ Hydrazine, hydrazono acid oxalate 2149²³
- C₂₃H₃₂N₂O₆ Cinchonine 6 methoxy β diethylaminoethyl ester 4883²⁴
- Neobitribute acid, benzylidene 1877²⁵
- C₂₃H₃₂N₂O₆ (See also Beacine)
- Amino acid from the di Ac deriv of tetrahydrostrychnine 2132²⁶
- C₂₃H₃₂N₂O₆ Urea 2 butyl 3 isodipropyl 514²⁷
- C₂₃H₃₂N₂O₆ An dye from the Me ester of neoxanthobitribute acid HCl 1837²⁸
- C₂₃H₃₂N₂O₆ Nitrophosphate m 153-4° of ketone from Me lupinate and PhMgBr 4065²⁹
- Picrate m 120-1°, of base m 143-5° 4005³⁰
- C₂₃H₃₂N₂O₆ Veratraldehyde 2 (5 formyl 2 methoxy 4 vinylphenyl) 6 vinyl diaceticarboxone 2983³¹
- C₂₃H₃₂O₆ Desoxyisotenolol, 3650³²
- C₂₃H₃₂O₆ Dehydrodihydroisotenolone acid, 3650³³
- Desoxytoxarsol, dihydro- 3649³⁴
- Rotenone acid, dihydro- 5423³⁵
- C₂₃H₃₂O₆ Deguel acid, dihydro- 3650³⁶
- Dehydrodihydroxy β dihydroisotenone acid 1251³⁷
- C₂₃H₃₂O₆ Glucofuranose 5 p-toluenesulfonyl 6 benzoylacetone-, 2120³⁸
- C₂₃H₃₂ClN₂O₆ 1,3,3-Triethyl-2-(1,3,3-trimethyl 2,3-indolidenemethyl)isomethylidolum perchlorate 2427³⁹
- C₂₃H₃₂NO₆ Naphthol 1 (α diisopropylammonium) 2715⁴⁰
- C₂₃H₃₂NO₆ Morphine dipropionyl and HCl 3004⁴¹
- C₂₃H₃₂NO₆ Hydrazine N-hydroxy 1,1-deriv and HCl 4274⁴²
- C₂₃H₃₂NO₆ Hydrazine N-hydroxy 1,1-deriv sulfamate acid 4,75⁴³
- C₂₃H₃₂N₂O₆ Lysine N⁴-(benzyl N⁶-(N-tetrazolylamyl) 2974⁴⁴
- C₂₃H₃₂NO₆ 1,3,3-Triethyl 2,1,3,3-trimethyl 2,3-indolidenemethyl) pseudonitolum hydroxide 2427⁴⁵
- C₂₃H₃₂NO₆ Brucine 4005⁴⁶
- 1,1-Cyclotetranedecyl oxamide 3 amine 170⁴⁷
- N-1,1-trisubstituted (benzyl 157⁴⁸
- strychnine tetrahydro Ac deriv and di perchlorate 2432⁴⁹
- C₂₃H₃₂N₂O₆ Brucine dihydro- 110⁵⁰
- Equine 18,9⁵¹
- C₂₃H₃₂N₂O₆ 3,3-Bisulfonamide acid 4-hydroxy 3-keto 2-methyl phenylazone PhNHNH₂ salt 271⁵²
- C₂₃H₃₂NO₆ 5-Phenylhydrazine salt of oxazone of compd from 2-methyl 2,3-butadiene sulfone 271⁵³
- C₂₃H₃₂O₆ Naphthalene acid methyl methyl ester 2715⁵⁴ 7645⁵⁵
- C₂₃H₃₂O₆ See Dactylis
- C₂₃H₃₂NO₆ Glucosyl 6 amine acetonide p-toluenesulfonyl 2121⁵⁶
- C₂₃H₃₂O₆P Methylphosphine acid triphenyl compd with LiOH 3618⁵⁷
- C₂₃H₃₂NO₆ Quinolizone 4 carbolol oclahydro α α d phenyl methylidate 4005⁵⁸
- C₂₃H₃₂N₂O₆ Urea α cyclohexyl β phenyl α (γ phenylisobutyl) 1810⁵⁹
- C₂₃H₃₂N₂O₆ Diacetyl deriv m: 270-70° of compd m: 210-2°, 5429⁶⁰
- C₂₃H₃₂N₂O₆ Brucine dihydro- 4275⁶¹
- C₂₃H₃₂N₂O₆ Brucine dihydro-hydrate and HCl 110⁶²
- C₂₃H₃₂N₂O₆ Compd m 171° from α-amyrin and HNO₃ 2959⁶³
- Galactose pentaacetate methylphenylhydrazine 5402⁶⁴
- C₂₃H₃₂N₂O₆ Veratraldehyde 6 ethyl 2 (4 ethyl 5 formyl 2-methoxyphenyl) diaceticarboxone 2984⁶⁵
- C₂₃H₃₂O₆ Anhydro β (isodihydrodioxigenone), 4889⁶⁶
- C₂₃H₃₂O₆ Isodioxigenone neo 4889⁶⁷
- C₂₃H₃₂O₆ Lactone m 235-6° from isodioxigenone diacid Me ester 5173⁶⁸
- Pyropseudochinoidic acid 1535⁶⁹
- C₂₃H₃₂ClN₂O₆ 1,3-Propanediamine 2-chloro N,N,N-tetraethyl, picrate 549⁷⁰
- C₂₃H₃₂NO₆ 1-Piperid methanol, α phenyl α (5 phenylbutyl) HCl 4276⁷¹
- C₂₃H₃₂BrN₂O₆ Derrisone, ethyl, ethobromide and chloroplatinate, 960⁷²
- C₂₃H₃₂N₂O₆ 4-Isopyrrolepropionic acid 2 (4 (α carboxyethyl) 3-methyl 5 (methylmercaptomethyl) 2-pyrrol methylene) - 3-methyl 5-(methylmercaptomethyl), di Me ester, HBr 3339⁷³
- C₂₃H₃₂N₂O₆ 4-Isopyrrolepropionic acid, 2-

- 1, 3 carbonyl ethyl 5 (methoxy methyl) 3 methyl 2 pyrrylmethylethyl 5 (methoxy methyl) 3 methyl, di Me ester and HBr 3338¹
- C₂₁H₂₉N₃O₄ Compd m 165-6°, from α amyrin and H₂O 2989²
- C₂₁H₂₉N₃O₄ 2 Propanol 1,3 bis(dialkyl amino) dipicrate 5395³
- C₂₁H₂₇O₂ 4,5-dihydrodioxogenin, 108⁴
- C₂₁H₂₇O₂ Desoxyisopropiogenic acid 3173¹
- Digitogenone oxodihydro- 4889¹
- Isodigitogenone acid 5173¹
- C₂₁H₂₅O₂ Acid m 246°, from dihydrodigitogenin 4889¹
- Pyrocholanone acid 3661¹
- Strophanthidin 4854¹
- C₂₁H₂₅O₂ Duodecaphanthoic acid, di Me ester 5173¹
- α-Isostrophanthoic acid 4859¹
- Undecapogenone Me ester 5173¹
- C₂₁H₂₅N₃O₃ Sarcosinecarbamethine methyl methyl methosulfate 4551¹
- Sarcosinecarbamethine methyl methyl methosulfate 4551¹
- C₂₁H₂₅N₃O₂ 2 Pyrrylcarbonyl acid 5, 5 (methyl)enebis(methylpropyl) di Et ester 3000 3010¹
- C₂₁H₂₅O₂ Pyruvodesoxyribanone acid 3661¹
- C₂₁H₂₅O₂ (See also Glucigenin)
- Digucigenin 708¹
- Isodigucigenin 108¹
- Laudigucigenin 377¹
- Penlogucigenin 4884¹
- C₂₁H₂₅O₂ Desoxy α isostrophanthoic acid, 4884¹
- Isopropiogenic acid 4882¹
- C₂₁H₂₅O₂ Tin acid m 256° 5173¹
- C₂₁H₂₅N₃O₂ Isopyrrolone, 5 methyl 2 (5 methyl) 3,4 dipropyl 3 pyrrylmethylethyl 3,4 dipropyl, HBr 3010¹
- C₂₁H₂₅N₃O₂ 5 Glycine p-creosolsulfonylethyl, 491¹
- C₂₁H₂₅O₂ Me ester of acid conig. 4 C ring, 914¹
- C₂₁H₂₅O₂ Digucigenin dihydro- 708¹
- Citoxigenin, dihydro- 4889¹
- Ketocarboxylic acid, m 203.5° from diketocholanone acid, 3661¹
- C₂₁H₂₅O₂ Isodigucigenone acid, 708¹
- C₂₁H₂₅N₃O₂ 3 Butylethylmethylphenylammonium dimethylphosphate 3323¹
- C₂₁H₂₅O₂ 4 Creosol 4 dodecyl-6 ethyl acetate 929¹
- C₂₁H₂₅ClN₃Ph₂S₂, 4194¹
- C₂₁H₂₅N₃O₂ Besticone, 1 (and 4) (acetyloxy) 4 (and 1) methoxy 2 nitro, 2127¹
- C₂₁H₂₅O₂ Brenesia, 1 (acetyloxy) 4-methoxy, 2127¹
- C₂₁H₂₅O₂ Furacanthol, tetrahydro-, lactate, P 3666¹
- C₂₁H₂₅NO₃ Benzene-sulfonamide, 1 hepta decyl, 497¹
- C₂₁H₂₅IP₂ Methylidodecylphenylphosphomono iodide, 3662¹
- C₂₁H₂₅O₂ Furacanthol, tetrahydro-, oleate, P 3666¹
- C₂₁H₂₅O₂ Furacanthol, tetrahydro-, stearate, P 3666¹
- C₂₁H₂₅O₂ 1,21 Heterococanedicarboxylic acid, 490¹
- Nalox acid, cityl di Et ester 5395³
- Phellogenone acid, di Me ester, 4853¹
- C₂₁H₂₅N₃O₂ Adipam acid, 1 heptadecyl, and Ba salt, 497¹
- C₂₁H₂₅N₃O₂ Glucosone acid, heptadecylamide salt, 497¹
- C₂₁H₂₅ClN₃Ph₂S₂, 4194¹
- C₂₁H₂₅N₃O₂ Dibenzoyl, 2, 2-pyrenedinitrile, 6, 12 dihydro-6, 12-diceto- P 1094¹
- C₂₁H₂₅Br₂O₂ [3, 3] Biscenaphthene - 8, 8' - dione, dibromo, 1815¹
- C₂₁H₂₅O₂ 3, 2 α Anthrathrophenone - 1, 8, 11 (2) - trioxo, 2 (2 - keto 1(2) thionaphthene)ylidene, 2723¹
- C₂₁H₂₅O₂ Naphthalene anhydride, 2, 2-sulfosylbenzyl, 5419¹
- C₂₁H₂₅BrN₃ Acenaphthaphenazinium, 3 bromo-, 2715¹
- C₂₁H₂₅Br₂O₂ Spica (benzoanthene 12-1'(2) - isobenzofuran) 2' - oxo, 6, 8, 10 tetrabromo-3, 9-dihydroxy, 5415¹
- C₂₁H₂₅ClN₃ Acenaphthaphenazinium, 3 chloro-, 2715¹
- C₂₁H₂₅NO₂ 3, 2 - α Anthrathrophenone 1, 6, 11(2) - trioxo, 2 (3 - keto 2(5) - indylidene), 2723¹
- C₂₁H₂₅Br₂O₂ Spiro[benzoanthracenobenzofuran] one dibromohydroxy 5414¹
- C₂₁H₂₅Br₂O₂ 1, 5 Naphthalenediol, 2, 6, 8, 3 - tetrabromo-, dibenzoate, 512¹
- C₂₁H₂₅O₂ 3, 4, 5 Bisphebothiophenone, 3202¹
- C₂₁H₂₅Br₂O₂ 1, 5 Naphthalenediol, 2, 4, 6 tri bromo-, dibenzoate, 512¹
- C₂₁H₂₅ClO₂ 7 micro Benzanthrenone, 4 - p - chlorobenzoyl P 4654¹
- C₂₁H₂₅Br₂O₂ 1, 5 Naphthalenediol, 2, 6 di bromo- dibenzoate, 512¹
- C₂₁H₂₅ClO₂ Naphthalene, 1, 4 bis(p chlorobenzoyl) P 1684¹
- Perylene bis(chloroacetyl), 292¹
- C₂₁H₂₅N₃O₂ See Indogucigenin
- C₂₁H₂₅N₃O₂ Perylene, 3, 9-diacetylhydantoin, 292¹
- C₂₁H₂₅O₂ 7 micro Benzanthrenone, 4 benzoyl, P 4357¹
- C₂₁H₂₅O₂ 8, 1, 2 Benzodi 1, 4 thiopyran 4, 6 dioxo 2, 5 dithiopyl, 1526¹
- C₂₁H₂₅O₂ Spiro[benzoanthene - isobenzofuran] one dihydroxy 5414¹, 5415¹
- C₂₁H₂₅ClO₂ Naphthalene 1 benzoyl 4 p chlorobenzoyl P 1684¹
- C₂₁H₂₅N₃O₂ Anthranquinone, 1 - acetamide - 2 (2, 4-dimethoxy)yl, 917¹
- C₂₁H₂₅Phenanthracenaphthene, 2715¹
- C₂₁H₂₅Phenanthrene, 6, 6 - oxybis-, 1831¹
- C₂₁H₂₅Br₂HgS₂ 1 - Acenaphthophenyl mercaptan, 3 bromo-, Hg deriv, 5419¹
- C₂₁H₂₅Br₂PhS₂ 1 - Acenaphthophenyl mercaptan, 3 bromo-, Pb deriv, 5419¹
- C₂₁H₂₅S₂ Dithiobis, bis(3 bromo - 1 - acenaphthene)yl, 5419¹, 5420¹
- C₂₁H₂₅ClN₃ Compd, m 192°, from 4 - amino - 3 chloro - 2 quinoxalinecarboxylic acid and BrH₃, 2430¹
- C₂₁H₂₅Cl₂N₃O₂ S, P, P'' Dibenzene-sulfonamide, 4, 4 - dichloro 2, 2' dinitro 2894¹
- C₂₁H₂₅Br₂O₂ Benzene, 1 (p nitrophenoxyl) 4 (p nitrophenoxyl)phenoxyl 1816¹
- C₂₁H₂₅NO₂ Elagic acid and ne compound 2116¹
- C₂₁H₂₅NO₂ 1, 3, 6 Carbazotetra-sulfonic acid 8, 8 dithioab - P 4654¹
- C₂₁H₂₅NO₂ Fluoran, 1, 3, 6, 8 tetramethyl 2, 4, 5, 7 tetranitro- 5416¹
- C₂₁H₂₅O₂ Naphthalene, dibenzoyl, 943¹, 1313¹, P 1654¹
- C₂₁H₂₅O₂ Compd, m 217° from compd m 193° and PbCl₂Br 5419¹

- C₂₁H₁₇BrN: Acenaphthensquinone 3 bromo, 1-(phenylhydrazono), 1519¹
- C₂₁H₁₇ClO: Ketone, 4-*p*-chlorobenzyl 1-naphthylphenyl, P 1684²
- C₂₁H₁₇NO: Ketone 4 benzyl-8 niteo 1 naphthylphenyl, 1554²
- C₂₁H₁₇NO: *p*-Naphthoazaine, 2-1 β -benzylaminophenylimino 1-2-dihydro-, 2423³
- C₂₁H₁₇N₂O: 3,1-Naphthol 3 sulfonic acid 2 [*p*-(5-methyl-1-benzothiazolyl)phenoxy], 1722⁴
- C₂₁H₁₇: Benzene, 1,3,5-triphenyl, 2713⁵
- Benzerythrose, 4252¹
- Biphenyl, diphenyl 4252⁴
- Diobenanthracene, 7-14 dimethyl 2716⁵
- Dibenzo[*g*]benanthracene, 2-11 dimethyl, 3900⁶
- C₂₁H₁₅AsN: 2(1) 2(1) Benzenazate 1-1-phenyl 198⁷
- 1-(6-6) Phenarazaine, 110⁸
- C₂₁H₁₅AsN₂O: Benarazaine 1-1 oxybis(6-dihydro) 1831⁹
- C₂₁H₁₅AsN₂O: Phenarazaine 1-6 dihydro 1-hydroxy sulfate 109¹⁰
- C₂₁H₁₅Br₂O: Quinone 2-6 dibromo 3,6-bis(4-6-dibromo 2-methyl) 640¹¹
- C₂₁H₁₅CuN₂O₄ + H₂O: Dipyrrolicocupric α -nitrobenzoate hydrate 681¹²
- C₂₁H₁₅N₂O: Acenaphthene 3-3-oxo 2998¹³
- 3-Acenaphthene 2 (3-acenaphthene) 3088¹⁴
- 1-Naphthaldehyde, 6-le-formylphenyl phenylhydrazono 400¹⁵
- C₂₁H₁₅N₂O: Naphthalene dibenzoyl diacetate, 1815¹⁶
- (Guanide, V naphthyl N N diphenyl 284¹⁷
- 3-*p*-Pyrazolone 4-cannal 1-2-diphenyl 2145¹⁸
- C₂₁H₁₅N₂O: 5(4) Imidazolone 2-phenyl 4-piperonylidene 1-m-(*o*-*p*)-tolyl 3342¹⁹
- 8-Quinolone 7-benzamido 6-methyl benzoate 934²⁰
- C₂₁H₁₅N₂O: Sulfonic acid [2-(2-hydroxy-1-naphthylazo)-5-phenylphenylmercapto] 2999²¹
- C₂₁H₁₅N₂O: [2,3-Bi-pyrrolic] 4-4-dione 1-1-diacetyl 2-2-diphenyl 1827²²
- D-pyrrolic(1,2- α -1,2- β)pyrazine 5-10-diol 5-10-dihydro dibenzoate 2995²³
- Naphthalene-dicarboxylic acid *o*-*o*-di-hydroxy P 2003²⁴
- C₂₁H₁₅N₂O: Fluoran tetramethyldiurea, 5415²⁵
- C₂₁H₁₅N₂S: Azobenzene *p*-*p*-bis(phenylmercapto) 2127²⁶
- C₂₁H₁₅N₂O: Phenol, *p*-*p* (*p*-biphenylene di-azo) 1555²⁷
- C₂₁H₁₅O: 3-Acenaphthene ether 3988²⁸
- Ketone, 3-acenaphthene 2-methyl 1-naphthyl, 2717²⁹
- , benzyl 1-naphthyl phenyl, 1515³⁰ P 1684³¹
- C₂₁H₁₅O: Diphenyl, *p*-*p*-diphenoxy 4253³²
- C₂₁H₁₅O: 5-1-Acenaphthene sulfone 5419³³
- C₂₁H₁₅O: 1-9-Benzodiol 1,4-thiopyran 4-6-dione, 2-3,7,8-tetrahydro 2,8-diphenyl, 1826³⁴
- Disulfide bis(*p*-phenoxyphenyl), 1816³⁵
- C₂₁H₁₅O₂: 6-Benzene[5,10]anthracene 1,4-diol, 5-10-dihydro, diacetate, 5160³⁶
- C₂₁H₁₅O: Sulfonic acid (*m*-phenylene dihydro) 1527³⁷
- 2-Naphthol, 1,4-dithio-*o*-diacetate 2339³⁸
- C₂₁H₁₅O₂: 2-Naphthene acid 4,4-ethylene bis(hydroxy) 5400³⁹
- C₂₁H₁₅S: 1-Acenaphthene disulfide, 5419⁴⁰
- Disulfide bis(*o*-phenylphenyl), 200⁴¹
- C₂₁H₁₅Cl₂FeNO: Ketone chlorophenyl 2-ethyl 2,5-dihydro 3-hydroxy 3,4-diphenyl 5-isoxazolyl FeCl₂ deriv 514⁴²
- C₂₁H₁₅NO: Ketone benzyl 1-naphthyl phenyl ester, 1515⁴³
- C₂₁H₁₅NO: Benzof[*c*]cyclopent[*d*]indole 5-acetyl 7-benzyl 7-*o*-10-tetrahydro- 1522⁴⁴
- C₂₁H₁₅NO: Oxime acid N-di-2-naphthyl ester 201⁴⁵
- C₂₁H₁₅NO: See *isomers*
- C₂₁H₁₅NO: L-thanol 1,2-bis(3,4-methylene dioxyphenyl) 2-piperonylacetamide, 1240⁴⁶
- C₂₁H₁₅N₂O: Canchophen 6-methoxy, benzaldehyde 4884⁴⁷
- C₂₁H₁₅N₂O: Quinolone 3-benzamido 6-7-methyleneoxy 2-*o*-(*o*-*p*)-toluene, 3342⁴⁸
- C₂₁H₁₅N₂O: Canchophenolide α -benzamido 3-4-methyleneoxy 6-nitro 3342⁴⁹
- C₂₁H₁₅N₂O: 1,2,3-Triazole 3,4-dicarboxylic acid 1-phenyl bis(benzaldehyde) 1626⁵⁰
- C₂₁H₁₅or: Dibenzanthracene 7-14-dihydro 7-14-dimethyl 2716⁵¹
- Naphthalene 1,4-dibenzoyl 1515⁵²
- C₂₁H₁₅AsN₂O: Diphenylammonium, oxy compd of arsenic deriv 108⁵³
- C₂₁H₁₅Br₂Na₂O: Quinone 2-5-bis(3-bromo 2-methyl) 3-6-dihydroxy di-Na deriv 3840⁵⁴
- C₂₁H₁₅Br₂O: Quinone 2-5-dibromo 3-6-bis(4-bromo 2-methyl) 940⁵⁵
- C₂₁H₁₅Br₂O: Hydroquinone 2-5-dibromo 3-6-bis(4-bromo 2-methyl) 940⁵⁶
- C₂₁H₁₅ClNO: Ketone, chlorophenyl 2-ethyl 2-5-dihydro 5-hydroxy 3-4-diphenyl 5-isoxazolyl 514⁵⁷
- C₂₁H₁₅ClNO: Ketone chlorophenyl 2-ethyl 2-5-dihydro 5-hydroxy 3-4-diphenyl 5-isoxazolyl acetate 514⁵⁸
- C₂₁H₁₅ClNO: Quinolone α -4-diamine 3-chloro, Ac deriv, 2430⁵⁹
- C₂₁H₁₅ClN₂O: Quinolone 2-7-dichloro 4-m-chloroaniline α -*p*-phenetidine, 2430⁶⁰
- C₂₁H₁₅FeN₂O: 3580⁶¹
- C₂₁H₁₅MoN₂O: 5639⁶²
- C₂₁H₁₅NO: Anthracene 1-10- β -pyrrolic 6-oxyl 1-2-dihydro 1-methyl 2-xylyl 5420⁶³
- C₂₁H₁₅N: Benzidine diphenyl, 48⁶⁴ 5109⁶⁵
- C₂₁H₁₅N₂O: Amine, *p* [*p* [*p* [*p* amino-phenoxy]phenoxy]phenoxy] 1816⁶⁶
- C₂₁H₁₅N₂O: Canchophenolide, α -benzamido 3-4-methyleneoxy 3342⁶⁷
- Hydrazine, α -bis(3-methoxy 2-naphthyl) 2133⁶⁸
- C₂₁H₁₅N₂O: Canchophen, methyltolylsulfonamide, 699⁶⁹

- $C_2H_5N_2S_2Zn$ Phenyl mecaptan, 2 amino 5-phenyl Zn deriv 2999
 $C_2H_5N_2S_2Zn$ 4,4 Bipyridine compd with p p' toluidamine 5426
 $C_2H_5N_2S_2Zn$ Quinazoline 2,4 bis(a carboxy anilino) di Me ester, *ICI* 5509
 $C_2H_5N_2S_2Zn$ Compd m 246 from compd m 208 and phenylglyoxal 5457
 $C_2H_5N_2S_2Zn$ Ketone 2,7 dimethyl 1 naphthyl 4 methyl 1 naphthyl 271h
 $C_2H_5N_2S_2Zn$ Anthrol, dimethylphenyl, acetate 3640 4547
 $C_2H_5N_2S_2Zn$ 7,14 Dibenanthracenediol 7,11 dihyd 7,14 dimethyl 2716
 $C_2H_5N_2S_2Zn$ Fluorant tetramethyl 5415
 $C_2H_5N_2S_2Zn$ 1 Naphthalenesulfonic acid 5,8 dibenzyl No salt 1515
 $C_2H_5N_2S_2Zn$ Thionaphthalene acid o o di p anisyl and Ba salt 2144
 $C_2H_5N_2S_2Zn$ Glycol tris(p hydroxy benzoate) 3636
 $C_2H_5N_2S_2Zn$ Chromanone 3 (3,4 dihydroxy benzal) 7,8 dihydroxy tetraacetate 1534
 $C_2H_5N_2S_2Zn$ Cyrophonic acid 2135
 $C_2H_5N_2S_2Zn$ Capric acid 288
 $C_2H_5N_2S_2Zn$ Butyline tetraphenyl 1827
 $C_2H_5N_2S_2Zn$ Silicane tetraphenyl 1485 5830
 $C_2H_5N_2S_2Zn$ Stannane tetraphenyl, 5830
 $C_2H_5N_2S_2Zn$ Amino, Benzeneamine acid p p' (2,4 dihydroxy 3 phenyl) (trans) tr 997 4937
 $C_2H_5N_2S_2Zn$ IN, 5,6 Benzothio & cyanine sod 2 methyl 1 ethyl 4270
 $C_2H_5N_2S_2Zn$ MoN, 3,38
 $C_2H_5N_2S_2Zn$ Fluorene 9 (p dimethylarmino-cinnamal) 1233
 $C_2H_5N_2S_2Zn$ Trinitro 2,4,6 tri m (and p) tolyl P 5177
 $C_2H_5N_2S_2Zn$ Trundole 5164
 $C_2H_5N_2S_2Zn$ 1,3,5,7,9,11 Dodecahexane 1,12 d phenyl 1719
 $C_2H_5N_2S_2Zn$ Br, 3 Penlanone 4 benzyl 1,2 dibromo 1,5 diphenyl 5424
 $C_2H_5N_2S_2Zn$ Br, Quinone, 2,5 bis(3 bromo 2 methyl) 3,6 dihydroxy 5440
 $C_2H_5N_2S_2Zn$ Br, Hydroquinone 2,5 disomo 3,5 bis bromo 2 methyl 910
 $C_2H_5N_2S_2Zn$ ClNO, Hydroperoxide triphenyl methyl, compd with pyridine HCl, 3984
 $C_2H_5N_2S_2Zn$ Cl, O Rotenone compd with CCl, 4249
 $C_2H_5N_2S_2Zn$ Br, I Methylgu nitrium iodide compd with p, p' toluidamine 5476
 $C_2H_5N_2S_2Zn$ Br, O Compd m 295 from acetoxyhydric acid and phthalic anhydride 1837
 $C_2H_5N_2S_2Zn$ Na, 4,4 Butyridine, compd with p, p' methyl amine, 54,6
 $C_2H_5N_2S_2Zn$ I, 1, n, tetramethyl, 4,6
 $C_2H_5N_2S_2Zn$ Br, Quinazoline, 1,1-ethylacetate, 954
 $C_2H_5N_2S_2Zn$ Br, 3,3-diamino, B benzenesulfonamide 3,3-diamino, *ICI* 48714
 $C_2H_5N_2S_2Zn$ Br, 1,10 benzal 0,10 hydro-methyl 9 methyl 1 methyl, 29,3, 4516
 $C_2H_5N_2S_2Zn$ I, 1, 2, 4 di methyl 9 methyl 1 methyl 4517
 $C_2H_5N_2S_2Zn$ 3,1 pentenone 4-benzyl-1,5 di phenyl 5424
 $C_2H_5N_2S_2Zn$ Br, 1 p-anisyl 3 ethoxy 3,4 phenyl, 4533
 $C_2H_5N_2S_2Zn$ Phthalide 2,2 bis(4-hydroxy 2,5-xylyl), 5415
 $C_2H_5N_2S_2Zn$ Xylenophthalene 5416
 $C_2H_5N_2S_2Zn$ 3,4 Hydrocinnamic acid β, β (m phenyl enedithio) 1526
 $C_2H_5N_2S_2Zn$ Br, O Hydroquinone, 2,5 di-p-anisyl, diacetate 4537
 $C_2H_5N_2S_2Zn$ O, 3,4 Hydrocinnamic acid β, β' (m phenylenedisulfonyl) 1526
 $C_2H_5N_2S_2Zn$ O, 4-Chromanone 3 (3,4 dihydroxy benzyl) 7,8 dihydroxy, tetraacetate 1534
 $C_2H_5N_2S_2Zn$ Br, 1,2,4,5 Tolueneamine acid, m (p 6 methoxy 2 methyl 4 quinolyl amino) phenyl, 1528
 $C_2H_5N_2S_2Zn$ Br, Cl, O Rotenone, compd with CHCl, 4219
 $C_2H_5N_2S_2Zn$ Br, N Indoline 3,3-dibenzyl 1-methyl 2-methylene-5425
 $C_2H_5N_2S_2Zn$ Br, N Anthrone, 10-(p dimethylamino-phenyl) dimethyl, 2995, 3646, 4547
 $C_2H_5N_2S_2Zn$ Br, N, O Isoquinoline 6 benzyl 3,4 dihydro 1 (p-methoxybenzyl), and *ICI* 4542
 $C_2H_5N_2S_2Zn$ Br, N, O + H₂O Quinaldine, 4 (m (p-amino-phenyl) p-toluidine) 6 methoxy, 1528
 $C_2H_5N_2S_2Zn$ Br, N, O Naphthalene, 1,4 dibenzyl 1,2,3,4 tetrahydro-10-10
 $C_2H_5N_2S_2Zn$ Br, N, O, 5,8
 $C_2H_5N_2S_2Zn$ Br, Br, O 1,2,4,5 Benzenetetrol 3,6-bis(3-bromo-2-methyl), 3640
 $C_2H_5N_2S_2Zn$ Br, IN 3,3 Dibenzyl-1,3 dimethylpseudo-indolum iodide 5425
 $C_2H_5N_2S_2Zn$ Br, IN, I Methylquinolinium iodide, compd with p, p' substituted amine, 5425
 $C_2H_5N_2S_2Zn$ Br, N, O, 1,4 Butanediol 2 phenyl, di carbamate, 1832
 $C_2H_5N_2S_2Zn$ Br, N, O, Butyrophosone α dimethylamino β phenyl, picrate, 91
 $C_2H_5N_2S_2Zn$ Br, N, O, p Methoxybenzyl dimethylphosphorophosone, β p-anisyl α dimethyl amino, picrate, 91
 $C_2H_5N_2S_2Zn$ Br, O 2 Butanone 3,3 dibenzyl 4 phenyl (p), 3664
 $C_2H_5N_2S_2Zn$ Br, O 3 Penlanone 2 benzyl 1,2 diphenyl, 3664, 5124
 $C_2H_5N_2S_2Zn$ Br, O Acetylbenzoic deriv of alkanoic, 419
 $C_2H_5N_2S_2Zn$ Br, N, O, Compd m 214 from glucosamine and p-bromobiphenyl azide, 1804
 $C_2H_5N_2S_2Zn$ Br, N, O Morphine, benzyl, p 4359
 $C_2H_5N_2S_2Zn$ Br, N, O Toluamide, (m-benzoyl) phen ethyl p methoxy, 4552
 $C_2H_5N_2S_2Zn$ Br, N, O Ethanol 2 anisalamine 1,2 di p-anisyl, 1240
 $C_2H_5N_2S_2Zn$ Br, N, O, Thebanone benzenate, 2147
 $C_2H_5N_2S_2Zn$ Br, N, O, Benzene-sulfonic acid, p, p' - amine, aniline salt 1503
 $C_2H_5N_2S_2Zn$ Br, N, O, 1,4-diacetyl, pentaacetyl 6-bromo, 1527
 $C_2H_5N_2S_2Zn$ Br, N, O, 2-iodo-3-carboxylic acid 6-bromo 3-O tetraacetyl β glucosyl Me ester, 15124
 $C_2H_5N_2S_2Zn$ Br, N, O, 1 Methylgu nitrium iodide compd with α -methyltoluidine 5426
 $C_2H_5N_2S_2Zn$ Br, N, O, Camphor 3 (p-acetylaminophenyl) 0,91
 $C_2H_5N_2S_2Zn$ Br, N, O, Zr 3,2,5
 $C_2H_5N_2S_2Zn$ Br, N, O, Mesoxalic acid di Me ester, γ, γ' p-phenylene (p-methylthio) diamine, 917
 $C_2H_5N_2S_2Zn$ Br, N, O, Isothiophthalide, bis(4-o-toluenesulfonate) 3634

- C₂₁H₃₃ClO₂ Cholemic acid chloroketo- 4530^a
 C₂₁H₃₃NO Cholemic acid nitrodketo- 3661^a
 C₂₁H₃₃NO₂ Polanic acid ketolactam 3330^a
 C₂₁H₃₃NO₂ Desoxybisanic acid 5-hydroxy 6-keto name 1539^a
 C₂₁H₃₃NO₂ Cribanic acid name 120^a
 C₂₁H₃₃NO₂ α Isotrophanthadolic acid semu carbazone 4889^a
 C₂₁H₃₃N₂ Compd m 171° from reduction of β dimethylammon m isopropylbenzyl alcohol 1236^a
 Compd m 239-40° from reduction of β dimethylammon m isopropylbenzyl alcohol 1236^a
 C₂₁H₃₃N₂O₂ Cholemic acid 3 7-d keto- dioxime 4007^a
 C₂₁H₃₃N₂O₂ Isobisanic acid dioxime 125^a oxime lactam 1257^a
 C₂₁H₃₃N₂O₂ Acid decomp 2-6° from the ketolactam of bisanic acid 3336^a
 C₂₁H₃₃N₂O₂ Oxalates of bases from the acetyl bromide of isochavibetol acetate 4538^a
 C₂₁H₃₃N₂O₂ Tricyclohexylamine picrate 2713^a
 C₂₁H₃₃N₂O₂ Cholemic acid dihydrazine 4007^a 4279^a
 Cholemic acid 6- diketo- 3661^a
 Dehydrodesoxycholeic acid 2181 5431^a
 C₂₁H₃₃O₂ Acid m 203 5° from oxidation of diketocholeic acid 3661^a
 Cholemic acid hydroxydiketo- 3661^a
 C₂₁H₃₃O₂ Compd decamps 143° from sapogenin from *Camellia japonica* 4531^a
 Desoxybisanic acid 1535^a 3661^a
 Isotrophanthadolic acid Me ester 4889^a
 Ursodesoxybisanic acid, 3661^a
 C₂₁H₃₃O₂ β-Desoxybisanic acid 6 hydroxy, 3662^a
 C₂₁H₃₃O₂ β Cholemic acid, 3662^a
 C₂₁H₃₃O₂ Pentabasic acid m 180° from oxidation of 5 hydroxy 6 ketodesoxybisanic acid 1535^a
 C₂₁H₃₃BrO₂ Cholemic acid 6 bromo-7 keto- 3661^a
 C₂₁H₃₃NO₂ Cholemic acid 6 7-diketo- oxime 3661^a
 C₂₁H₃₃NO₂ Isodesoxybisanic acid oxime 1207^a
 Oxime decomp 191° of compd from sapogenin from *Camellia japonica*, 4553^a
 C₂₁H₃₃N₂O₂ Hexylamine N cyclohexyl β methyl picrolonate 1809^a
 C₂₁H₃₃ Compd bp 205-10° from brown-coal tar oil 3463^a
 C₂₁H₃₃N₂O₂ Acid derived from bisanic acid, 5431^a
 Oxidation product acid decomp 278° from the ketolactam of bisanic acid 335^a
 C₂₁H₃₃O₂ Apocholemic acid 4007^a
 β Cholemic acid, 4279^a
 Tetracosapentenoic acid "32^a
 C₂₁H₃₃O₂ Lithocholic acid dehydro- 4554^a
 C₂₁H₃₃O₂ Apocholic acid 4007^a, 4279^a
 Cholemic acid, 6-hydroxy 7 keto- 3661^a
 Cholemic acid dehydro- 4007^a
 Isoanthracic acid di Et ester 1239^a
 C₂₁H₃₃O₂ Apocholic acid oxime 4007^a
 C₂₁H₃₃O₂ Isobisobisanic acid, 3661^a
 Trimethyl ester m 62° of tribasic acid from dodecaphanthodiazene 5173^a
 C₂₁H₃₃O₂ P bis(dicetonefluorone) 1 phosphoric acid and salts 5149^a
 C₂₁H₃₃ Compd bp 228-34°, from brown-coal tar oil, 3463^a
 C₂₁H₃₃N₂ Benimidazole 2 heptadecyl, 1500^a
- C₂₁H₃₃N₂O₂ Glycine, leucylglycylglycylglycylglycylglycylglycylglycylglycyl, 2040^a
 C₂₁H₃₃O₂ Stearic acid, Ph ester 277^a
 C₂₁H₃₃O₂ (See also Desoxycholeic acid)
 Fumaric acid dimethyl ester, 5145^a
 Maleic acid, dimethyl ester, 5145^a
 Ursodesoxycholeic acid, 3661^a
 C₂₁H₃₃O₂ See Cholemic acid
 C₂₁H₃₃O₂ Cholemic acid, 3,7,13,14-tetrahydroxy, 4007^a
 C₂₁H₃₃O₂ Adonidan, 2196^a, 3725^a
 C₂₁H₃₃O₂ α Tetraamylase, 88^a, 1495^a
 C₂₁H₃₃NO₂ Phthalic acid, mono-Bu ester, BuN salt, P 3666^a
 C₂₁H₃₃ Cyclohexane 1 3,5-tricyclohexyl, 2713^a
 C₂₁H₃₃N₂O₂ Succinamide dipropyl, 300^a
 C₂₁H₃₃O₂ Cellulose, 4119^a
 C₂₁H₃₃NO₂ Sphingosin, triacetyl, 4278^a
 C₂₁H₃₃O₂ 1 12 Cyclotetracosanediol, 922^a
 C₂₁H₃₃NO₂ Pyranose, 2,2,4 6 tetrahydroxy 5,5 diethyl 2 5 dihydro, 4229^a
 C₂₁H₃₃O₂ Cyclotetracosanone, 922^a
 C₂₁H₃₃O₂ Brassic acid Et ester, 462^a
 ‡ Tetracosenoic acid, 113^a
 C₂₁H₃₃O₂ 1 20 Eicosanedicarboxylic acid, di Me ester 3321^a
 Phellonic acid, acetate, 3321^a
 C₂₁H₃₃O₂ Lauric acid, α α'-dihydroxy, 982^a
 C₂₁H₃₃ Cyclotetracosane 922^a
 Hydrocarbon from pelandanus acid, 937^a
 2 Tricosene 2-methyl, 66^a
 C₂₁H₃₃Co₂Hg₂N₂S₂, 392^a
 C₂₁H₃₃Co₂Cu₂N₂S₂, 392^a
 C₂₁H₃₃O₂ (See also Ligoceric acid)
 Tetracosanoic acid, 153^a, 217^a, 3880^a
 C₂₁H₃₃ Tricosane 2 methyl, 67^a
 C₂₁H₃₃N₂O₂ 1 4 Piperazinediethanol, α α' diethyl α,α dimethyl, and di HCl 517^a
 C₂₁H₃₃N₂O₂ 1 4 Piperazinediethanol, α α' bis(hexyl)ethyl, di HCl, 518^a
 C₂₁H₃₃O₂ 2 Tricosanol, 2-methyl, 67^a
 C₂₁H₃₃P Phosphoric acid, triethyl, 3662^a
 C₂₁H₃₃N₂O₂SiW₂ Glycine, V, V dimethyl Et ester bisamide, sulcatungstate, 607^a
 C₂₁H₃₃N₂O₂FW₂ Choline acetyl α methyl, phosphatungstate, 607^a
 C₂₁H₃₃N₂O₂SiW₂ Homocoumarin, sulcatungstate 607^a
 C₂₁H₃₃AlO₂ Aluminum-tricosane acid 5862^a
 C₂₁H₃₃N₂O₂SiW₂ Choleic acid, α methyl sulcatungstate 607^a
 C₂₁H₃₃N₂O₂ 6(2) meta Anthrapyrazinone 2 (3-carboxy 2 naphthyl), P 5576^a
 C₂₁H₃₃N₂O₂ 2 - Twoaphthene-carboxylic acid, 1 1-carboxylate anhydride, phenyl hydrazine, 5167^a
 C₂₁H₃₃O₂ para(1 6) Phthalyl 2 naphthol, benzate, 4546^a
 C₂₁H₃₃ Phenanthraquinone 2717^a
 C₂₁H₃₃Ag₂N₂O₂ Cresosolol, α α' di Ag dene, 2992^a
 C₂₁H₃₃Br₂O₂ 3 6-Xanthenediol 9 9-diphenyl dibromo deriv, 3644^a
 C₂₁H₃₃K₂O₂ 3 6 Xanthenediol, 9 9 d phenyl di K deriv, 3644^a
 C₂₁H₃₃N₂O₂ 3, 9 Fluorenone bis(6 methoxy phenyl) mercaptan 290^a
 2 Thioaphthene-carboxylic acid 1 1 carbonyl-bis- phenyl hydrazine 5167^a
 C₂₁H₃₃O₂ Spero[fluorene 9 9 anthrene] 3,6-diol 3644^a

- $C_{11}H_9Cl$ Propene 3 chloro 1 (2 naphthyl) 3 3 dphenyl 1501²
 $C_{11}H_9ClN_2$ Benzamide \backslash , \backslash , \backslash tris(p chlorophenyl), 692²
 $C_{11}H_9NO_3$ Naphthacenequinone 1 hydroxy 4 (p tolylsulfonamido) 5163²
 $C_{11}H_9N_2O_2$ Quinoline, 6,6 p-nitrobenzyl 2092²
 $C_{11}H_9ClN_2$ Benzamide bis(p-chlorophenyl) phenyl, 692²
 $C_{11}H_9N_2$ Quinoline 6,6 benzalyl and chlorophenyl 2092²
 $C_{11}H_9N_2O$ Cereol α , α di 6 quinolyl 2092²
 $C_{11}H_9N_2O_2$ Cereol α , α di 6 quinolyl 2092²
 $C_{11}H_9N_2O_2$ 2,4 α , α Dibenzocephalene diol 11(or 12) methyl, diacetate 1244²
 $C_{11}H_9O$ Benzophenone p p-diphenyl 424⁶
 $C_{11}H_9O$ Ketone 2 fluorenyl 2 methyl 1 naphthyl 271²
 $C_{11}H_9OCl$ Benzal 3 3-d phenyl benzoate 339²
 $C_{11}H_9O_3$ Carboxylic acid thiono bis o-phenyl phenyl ester 209²
 $C_{11}H_9O_3$ 3,6 Xanthenediol 9 9 d phenyl 3643²
 $C_{11}H_9O_3$ 3,6 Xanthenediol 9 phenyl 9 (trihydroxyphenyl) 3644²
 $C_{11}H_9O_3$ 9 Fluorenone d phenyl mercaptol 290²
 $C_{11}H_9$ Methyl, d phenyl (p phenylphenyl) 5029²
 $C_{11}H_9N_2$ α Naphthothiazole, 1 (2 methyl) 1(2) α naphthothiazolyl idene methyl methobismide 704²
 $C_{11}H_9N_2$ Benzamide (p chlorophenyl) d phenyl 692²
 $C_{11}H_9N_2$ α Naphthothiazole 1 2 methyl 1(2) α naphthothiazolylidene methyl methobismide, "04"
 $C_{11}H_9ClN_2$ 2 (4 Anilino 3 chloro 2 quinolylmethyl) isooquinoline chloride 2430²
 $C_{11}H_9N_2$ α Naphthothiazole 1 (2 methyl) 1(2) α naphthothiazolylidene methyl methobismide "04"
 $C_{11}H_9NO_2$ Benzophenone α utrophenyl phenyl mercaptol 2413²
 $C_{11}H_9N_2O_2$ 1 Acetonaphthone 4 benzyl picate, 1515²
 $C_{11}H_9N_2O_2$ Benzophenone p (p utrophenyl aso) phenylhydrazine 2132²
 $C_{11}H_9N_2$ Methane, tetraphenyl 5830²
 $C_{11}H_9N_2$ Benzamide N, N N triphenyl 692²
 $C_{11}H_9N_2O_2$ 2 Naphthoic acid 4,4 (uredo methyl) bis(hydroxy F 1261 5400²
 $C_{11}H_9N_2O_2$ Pyridine dibenzyl picate 5420²
 $C_{11}H_9NO_2$ 2 Butenone 4 13 hydroxy p anisyl, oxime di Be deriv 2122²
 $C_{11}H_9N_2O_2$ Cocophen 6 ethoxy benzal hydrazide 4834²
 $C_{11}H_9O$ Cocophen 6 methoxy α methyl benzalhydrazide 4834²
 $C_{11}H_9N_2O_2$ Quinoid ne α (p dimethylamino benzal) niteo-1 phenyl, 1530²
 $C_{11}H_9N_2$ 3 Acenaphthene 2,2 methyl enol, 3983²
 $C_{11}H_9N_2O_2$ Diphenylamine, p, p' methylenebis-, 2992²
 $C_{11}H_9N_2O_2$ p Cinchonophenol, 6 methoxy 2 phenyl, 4853²
 $C_{11}H_9N_2O_2$ Cocophen, 6 methyl 7 p tolylsulfonamido, Me ester, 699²
 $C_{11}H_9N_2O_2$ Se Alamine \backslash glycol di 2 naphthalenesulfonyl deriv 2741²
 $C_{11}H_9O_3$ Thionaphtheneacetic acid α α di p anisyl Me ester 2144²
 $C_{11}H_9NO_2$ Sulfonic acid tolyl(2 or 4) phenyl sulfone 4 or 2-diphenyl 2531²
 $C_{11}H_9O_2$ Dehydroxycarbol acetyl 3640²
 $C_{11}H_9O_2$ 1 methylcarbol 2136²
 $C_{11}H_9NO$ Carbinol p dimethylaminophenyl 1 naphthyl 5673²
 $C_{11}H_9N_2O_2$ Quinoid ne 4 (p acetamido phenyl) anilino 6 methoxy "04"
 $C_{11}H_9N_2O_2$ 1 thibacetic 6 7 dimethoxy 1 venetol picate 297²
 $C_{11}H_9N_2O_2$ Isoquinoline 6 phenyloxy 3 4 dihydro 1 1' nitroethyl and cad 4302²
 $C_{11}H_9O$ Ether 10 benzal 9 10 dihydro 1 4 d methyl 9 anthylethyl 2494²
 $C_{11}H_9O$ 1 ether α 4 dimethyl 9 anthylethyl benzylethyl 454²
 $C_{11}H_9O_2$ Benzyl deriv m 170² of acil m "0" 449²
 $C_{11}H_9O_2$ Acetalechol pentacetate 7710²
 $C_{11}H_9N_2O_2$ Isoacetalechol pentacetate 7710²
 $C_{11}H_9N_2O_2$ o Tolueneacetic acid 4 (4 methoxy 2 methyl 4 quinolyl amino) m tolyl 1028²
 $C_{11}H_9N_2O_2$ Benzeneacetic acid 9 methoxy 4 (4 methoxy 2 methyl 4 quinolyl amino) m anisyl 1528²
 $C_{11}H_9N_2O_2$ 589²
 $C_{11}H_9NO$ Indole 1 acetyl 3 3 dibenzyl 2 methyl 5425²
 $C_{11}H_9NO$ Acetacetamide α benzohydryl α ethyl 1509²
 $C_{11}H_9NO_2$ 3 Pentenone 5 anilino 1 5 di p anisyl 3641²
 $C_{11}H_9NO_2$ Quinoline 4 (4 amioo m tolyl) α toluene 6 methoxy 1528²
 $C_{11}H_9N_2O_2$ Quinoline m orthobenalyl 1 2 3 4 tetrahydro 2992²
 $C_{11}H_9N_2O_2$ Quinoline 4 (4 amioo m anisyl) 2 methoxyanilino 6 methyl 1528²
 $C_{11}H_9N_2$ Pyrimidine 2 4 6 tris(V methyl anilino) 0670²
 $C_{11}H_9N_2O_2$ Carbinol bis(4 dimethylamino 1 naphthyl) 1015²
 $C_{11}H_9N_2O_2$ Cereol α bis(1 2 3 4 tetrahydroquinolyl) 2992²
 $C_{11}H_9N_2O_2$ Cereol α bis(1 2 3 4 tetrahydroquinolyl) 2992²
 $C_{11}H_9N_2O_2$ Isoquinoline 4 (2 amioo anisyl) 6 phenyloxy 3 4 dihydro and HCT 4302²
 $C_{11}H_9N_2O_2$ 1 5 Pentanedol 3 phenyl diar baslate 1832²
 $C_{11}H_9N_2O_2$ Benzamide V \backslash (trimethoxy silylene) bis 1226²
 $C_{11}H_9N_2O_2$ Dineopentyl acid 1 2 dihydro 2 6 dimethyl 4 (m utrophenyl) 1 phenyl di Et ester 3998²
 $C_{11}H_9N_2O_2$ Homoveratamide V (m (benyloxy) phenethyl 2 nitro 4302²
 $C_{11}H_9N_2O_2$ Isoquinoline 1 (8 aminomethyl) 2 3 4 tetrahydro 0 7 dimethoxy, dipicrate 1530²
 $C_{11}H_9NO_2$ Δ 3 4 5 \backslash obateteneone, 2 8 di ethyl 1 9-diphenyl, 1230²
 $C_{11}H_9O_2$ Rotenone β -dihydro, Ac deriv 1251²

- Toskara acetylhydro- 3649^c
 C₇H₁₁O₂ Desulcic acid acetyl- 3650^c
 C₇H₁₁NO₂ Desulcic acid tartrate 2149^b
 C₇H₁₁NO₂ Desulcic acid phenylazo- 2147^a
 C₇H₁₁CuF₂N₂P₂ + H₂O 170^d
 C₇H₁₁NiO₂ p- cyclopropane 1 2 [adam]
 3 d carbonylamine 3a 4 5 6, f, 7a
 hexahydro 3334^c
 C₇H₁₁O₂ 1,3-dihydroxydecanolac acid as
 hydrolysis with AcOH 3560
 Desulcic acid acetylhydro- 3649^c
 C₇H₁₁NO₂ Compd b 240-2° from tropae
 hydrocyanamide and hydrocyanamide acid
 3 j
 C₇H₁₁NiO₂ Desulcic acid dihydrophenylazo-
 2147^a
 C₇H₁₁ClN₂ Set Cryolite ole
 C₇H₁₁ClN₂O₂ Desulcic acid perchlorate 1013^c
 C₇H₁₁O₂ Carbonyl p- diethylaminoethyl
 aminoethylidiphenyl P 20 4^c
 C₇H₁₁N₂O₂ tryptamine tetrahydro di Ac
 deriv and perchlorate 2432^a
 C₇H₁₁N₂O₂ 2 + Pentamethylene dicyclohexane,
 4223
 C₇H₁₁O₂ Diam 310
 C₇H₁₁O₂S₂ Acetylids p- toluenesulfonyl
 acetonehexose 4211^b
 C₇H₁₁O₂ Ferulic acid tetraacetyl β d glucoside
 Me ester 2151^b
 C₇H₁₁AlO 65^b
 C₇H₁₁ClN₂O₂ 1 3 3 a 7 Pentamethyl 2
 (1 3 3 trimethyl 2(3) indigideone
 methylpseudomorphine perchlorate 2427^a
 C₇H₁₁NO₂ (Lumene butyrate 515^b
 C₇H₁₁N₂O₂ Isopyrrole 2 (4 5 dimethyl 3
 propyl 2 pyrrolidene)dimethyl
 propyl perate 3010
 C₇H₁₁N₂O₂ Aoline f p- 2 furanbis V
 methyl and H₂O 101^b
 C₇H₁₁O₂ 2 5 Heptadecan 4 ol 11 dicyclo
 hexyl 6 phenyl 45^b
 C₇H₁₁O₂ Anhydride, m 206° of dibasic acid
 ol j
 C₇H₁₁LiO₂ Dehydrochole acid amido- Me
 ester 477^b
 C₇H₁₁N₂O₂ Veratridehyde 6 (β dimethyl
 aminoethyl) 2 (4 (β dimethyl
 aminoethyl) 5 formyl 2 methoxy
 phenoxyl 2083^b
 C₇H₁₁N₂O₂ Diethylaminopropenyl(trimethyl
 ammonium)perate perate 5396^b
 Propylketone(diethylmethylammonium per
 ate) 5396^b
 C₇H₁₁O₂ Isotrophaanthone acid di Me ester,
 5573^b
 C₇H₁₁O₂ Dibasic acid m 191 3° 5173^c
 C₇H₁₁BrO₂ Dehydrochole acid 2 bromo- Me
 ester 427^b
 C₇H₁₁BrO₂ Glucose 6 bromohydrin, tetra
 acetylglucosaminomonoacetateammonocetyl,
 801
 C₇H₁₁BrO₂ Dehydrodesoxychole acid tri
 bromo- Me ester 42 9^b
 C₇H₁₁ClN₂O₂ β Chlorotrimethylenebis[di
 ethylmethylammonium]perate 5396^b
 C₇H₁₁ClO₂ Choleic acid chlorodiket-, Me
 ester, 4007^c
 C₇H₁₁LiO₂ Glucose 6 adobrydin tetraacetyl
 glucosaminomonoacetateammonocetyl 50^b
 C₇H₁₁N₂Ne p p- Methylenebis[diethyl
 methylphenylammonium]bromide 1005^b
 C₇H₁₁BrO₂ Dehydrodesoxychole acid di
 bromo- Me ester, 42 9^b
 C₇H₁₁Cl₂O₂ Choleic acid, dichlorodiket-,
 Me ester, 4504^c
 C₇H₁₁N₂O₂S₂ 4 Isopyrrolepropionic acid,
 2 (4 (β carbonyl) 5 (ethyl
 mercaptomethyl) - 3 methyl 2 pyrrol-
 methylene) 5 - (ethylmercaptomethyl)
 3 methyl, di Me ester, HBr, 3356^b
 C₇H₁₁N₂O₂ p- Methylenebis[diethylmethyl
 phenylammonium]perate, 1002^b
 C₇H₁₁N₂O₂ Trimethylenebis[diethylmethyl-
 ammonium]perate, 5396^b
 C₇H₁₁N₂O₂ β 13-droxytrimethylenebis[diethyl
 methylammonium]perate, 5396^b
 C₇H₁₁O₂ Apocholadienic acid, Me ester, 4007^c
 C₇H₁₁O₂ Choleic acid, 3,7-diket-, Me ester,
 4007^c
 C₇H₁₁O₂ Pyrocholadienic acid, di Me ester,
 3662^b
 C₇H₁₁ClN₂O₂ Choleic acid, chlorodiket-, Me
 ester, diamine, 4504^c
 C₇H₁₁ClO₂ Choleic acid, chlorodiket-, Me ester,
 4007^c
 C₇H₁₁Cl₂O₂ Choleic acid, dichlorodiket-,
 Me ester, diamine, 4504^c
 C₇H₁₁N₂O₂ Dehydroapocholeic acid, Me ester,
 diamine, 4007^c
 C₇H₁₁O₂ Pelandriac acid, 937^b
 C₇H₁₁BrN₂O₂S₂ Piperazine, 2,3,5,6 - tetra
 methyl 1 p- tolylsulfonyl - bromo-
 camphorsulfonate, 4272^b
 C₇H₁₁N₂O₂S₂ Lupanine, camphorsulfonate,
 3005^b
 C₇H₁₁N₂O₂S₂ Piperazine, 2,3,5,6 tetramethyl,
 1 p- tolylsulfonyl - camphorsulfonate,
 4272^b
 C₇H₁₁O₂ 7 Heptadecan 6 ol, 3,9 - d-
 ethyl 6 (γ ethyl γ - methyl - 1 -
 pentenyl) 3 9-dimethyl, 5500^b
 C₇H₁₁O₂ Apocholadienic acid, Me ester, 4007^c
 Olent acid, bis[ester], 4620^b
 C₇H₁₁O₂ Lithocholic acid, dehydro-, Me ester,
 4007^c
 C₇H₁₁O₂ Apocholic acid, oxido-, Me ester,
 4007^c
 Choleic acid, oxodihydroxy, Me ester
 4007^c
 C₇H₁₁N₂O₂ Lithocholic acid, dehydro-, Me ester,
 oxime, 4007^c
 Apocholic acid, 4007^c
 C₇H₁₁N₂O₂ Leucine, N, N', N'' (hydroxy
 methylphenyl)trisulfonate, 491^b
 C₇H₁₁O₂P Bis(diacetate)fructose - 1 phos-
 phoric acid, Me ester, 5148^c
 C₇H₁₁O₂ 3 Octadecanoic acid, 1 (4 hydroxy - m-
 amyl), 39,8^b
 Pelandriac acid, tetrahydro-, 937^b
 C₇H₁₁O₂ Choleic acid, 3,7,13 14-tetra
 hydroxy, Me ester, 4007^c
 C₇H₁₁N₂O₂ Glutaramide, diisopropyl, 3007^b
 C₇H₁₁O₂ Malonic acid, dimethyl, dimethyl
 ester, 2691^b
 C₇H₁₁N₂O₂ + 2H₂O p- partane, isopartane
 46,9^c
 C₇H₁₁ClO₂ Hebeic acid (chloroformyl),
 Et ester, 490^b
 C₇H₁₁O₂ 1,21 Methylenebis(carboxylic acid,
 monobutyl ester, 490^b
 C₇H₁₁N₂O₂ Adipamic acid, V heptadecyl, Et
 ester, 497^b
 C₇H₁₁Cl₂O₂ Dibromo[di]ethyryne - 5,8,13,16 -
 tetraene, dichloro-, P 2006^b
 C₇H₁₁O₂ Meistic transhydro, compd with

- anthracene 9th compd with phen
anthracene, 9th
- C₂₂H₁₀O₂S₂ Benzo[1,2 a,5,4 a] for β naphtho-
thiophene-8,16-dione, 516th
- C₂₂H₁₀O₂ Dibenzos[β]clarysene 5,8,13,16 -
tetrone, P 2006th
- C₂₂H₁₀N₂ Dibenzos[β]quinazolin[2,3- β]phenazine,
3343th
- C₂₂H₁₀O₂ 1,3 Indandione 2,2' terephthalaldis-
1517th
- C₂₂H₁₀O₂ 1,2 - Benzanthrene 7,12 dione
4 (o-carboxybenzoyl), P 2006th
- C₂₂H₁₀N₂O₂ Perylene, picrate, 4874th
- C₂₂H₁₀N₂O₂S 2 Naphthol, 1 (1 parylmer-
capto 2 naphthoxy), 3331th
- C₂₂H₁₀ Anthra[2,1 β]phenanthrene, 2717th
 Δ^2 β Fluorene, 1237th
Dibenzos[α]naphthacene, 2717th
Dibenzos[α]terphenylene, 912th
- C₂₂H₁₀Br₂ Fluorene, 2,7 dibromo - 9 di-
phenylmethylene, 1238th
- C₂₂H₁₀Br₂O₂ 9,9' Bisanthryl, 9,9 dibromo
tetrabromide, 1238th
- C₂₂H₁₀Br₂ 9,9' Bisanthryl, 9,9 dibromo
9,9' bisanthryl, 9,9 dibromo 2427th
- C₂₂H₁₀Br₂S₂ 9,9' Bisanthryl, 9,9 dibromo
9,9' bisanthryl, 9,9 dibromo 2427th
- C₂₂H₁₀Cl₂O₂ α - Benzene[10]anthracene -
1,4 dione 2 anthro 3 chloro 5,10
dihydro-, 5160th
- C₂₂H₁₀K₂O₂ Ketone, 3,6 dihydroxy 9 phenyl
9 xanthylphenyl di K deriv, 3644th
- C₂₂H₁₀N₂O₂ 8 - Indolo[3,2,1 a]acridin 9
one 6 benzamide, 2998th
9 Indolo[3,2,1 a]acridin - 8 one, 9
acetylaluminos, 2998th
Xanthone xone, 2413th
- C₂₂H₁₀N₂O₂S Benzophenone, 4,4' fluore-
[3 (and 4) nitro-, 2128th
- C₂₂H₁₀N₂O₂S Benzophenone, 4,4' - selenobis-
[3 (and 4) nitro-, 2128th
- C₂₂H₁₀N₂O₂ Benzophenone 4,4' - oxybis
[3 (and 4) nitro-, 2127th, 2128th
- C₂₂H₁₀N₂PbS₂ Benzothiazole, 1 mercapto - 9
phenyl, Pb deriv 2999th
- C₂₂H₁₀N₂S₂ Thioanthrone, acine 2414th
- C₂₂H₁₀N₂S₂ Benzothiazole, 1,2 dithio[5
phenyl-, 299th
- C₂₂H₁₀N₂S₂Zn Benzothiazole 1 mercapto 6
phenyl, Zn deriv, 2999th
- C₂₂H₁₀N₂O₂ Anthraquinone, 1,5 bis(p hydroxy
phenylato), 2719th
- C₂₂H₁₀N₂O₂ Quinoxaline, 2,3 bis(p - nitro
phenyl) 6 phenoxy, 1816th
- C₂₂H₁₀N₂O₂ Anthraquinone, 1,5 bis(2,4
dihydroxyphenylam), 2718th
- C₂₂H₁₀O₂ Δ^2 - Benzanthrene, 1237th
- C₂₂H₁₀O₂ 7,8-Benzodavone 3 benzoyl, 4767th
- C₂₂H₁₀O₂ Anthraquinone, 1,5-diphenoxy, 2140th
Sp anthracene 9(10) 3 xanthryl -
10 one 3,6-dihydroxy, 3644th
- C₂₂H₁₀O₂ Δ^2 - Benzanthrene, disulfone
2428th
- C₂₂H₁₀Br₂O₂ Anthrone 10 bromo 1,5 - di-
phenoxy, 2140th
- C₂₂H₁₀N₂O₂S 2 Naphthol, 1,1' - thioles,
picrate, 3331th
- C₂₂H₁₀ 9,9' Bifluorene, 942th
Fluorene 9-diphenylmethylene, 1237th
- C₂₂H₁₀Na₂O₂ Nicotinonitrile, hydroxy
methylphenyl, Ba deriv, 2999th
- C₂₂H₁₀Br₂ Ethylene 1,1 - dibromo 2,2 bis-
(p-phenylphenyl), 1216th
- C₂₂H₁₀Br₂O₂ 3,9 Perylenedicarboxylate acid,
dibromo di Ester, 292th
- C₂₂H₁₀Cl₂N₂O₂ Phenol, p phenylazo, compd
with p - O₂C₁₁H₁₃COCl, 3321th
- C₂₂H₁₀Cl₂N₂O₂ Nicotinonitrile hydroxymethyl
phenyl, Co deriv, 2999th
- C₂₂H₁₀Cl₂N₂O₂ 1(2) Phthalazone 4 hydroxy
nitro, Co deriv, pyridine complex
4001th
- C₂₂H₁₀Cl₂N₂O₂ Nicotinonitrile hydroxy
methylphenyl Cu deriv 2999th
- C₂₂H₁₀Cl₂N₂O₂ 1(2) Phthalazone 4 hydroxy
nitro Cu deriv, pyridine complex
4001th
- C₂₂H₁₀N₂NiO₂ Nicotinonitrile hydroxymethyl
phenyl Ni deriv, 2999th
- C₂₂H₁₀N₂O₂ Δ^2 β - Benzanthrene, 1237th
1,3 bis(p nitrobenzamide), 4871th
- C₂₂H₁₀N₂O₂ Anthraquinone, 1,5 bis(p amino
phenylazo), 2719th
- C₂₂H₁₀N₂NiO₂ 1(2) Phthalazone 4 hydroxy
nitro - Ni deriv, pyridine complex
4001th
- C₂₂H₁₀O₂ Ketone 2 methyl 1 naphthyl
3 phenanthryl 2717th
- C₂₂H₁₀O₂S 9 Fluorene 9 phenylmercapto
Leucoids 2413th
- C₂₂H₁₀O₂ Anthrone 1,3-diphenoxy, 2140th
C₂₂H₁₀O₂ 9,9' Bisanthryl, 9,9 dibromo
Ketone 3,8 dihydroxy 9 phenyl 9
xanthylphenyl 3614th
- C₂₂H₁₀O₂ α - Benzodifuran 2,4(1,5) dione
1,5 bis(methoxybenzyl), 1010th
- C₂₂H₁₀O₂ 2 Naphthol, 1,5 bis(p hydroxy
diacetylato), 2140th
- C₂₂H₁₀O₂ Thiophene, 2,5-diacetylato 2141th
- C₂₂H₁₀S₂ Fluorol disulfide 942th
- C₂₂H₁₀Br₂ Ethylene 2 bromo 1,1 bis(p
phenylphenyl), 1816th
- C₂₂H₁₀Br₂N₂O₂ Resorcinol (p nitrophenyl
azo) compd with BaBr 3321th
- C₂₂H₁₀Cl₂ Isoquinoline red, 1910th
- C₂₂H₁₀N₂ Pyrole 1 (2 naphthyl) 2,3 di-
phenyl 3999th
- C₂₂H₁₀N₂O₂ Benzamide, m (p phenoxyben-
zoyl), 212th
- C₂₂H₁₀N₂O₂S Benzohydroxyl α (o nitrophenyl
mercapto), benzoate 2413th
- C₂₂H₁₀ Ethylene, α bis(p phenylphenyl),
1516th
Ethylene, tetraphenyl, 212th, 41 07, 4830th
Stilbene β , β -diphenyl, 1514th
- C₂₂H₁₀Br₂N₂O₂ Phenol p phenylazo, compd
with BaBr 3321th
- C₂₂H₁₀Cl₂N₂O₂ Phenol p phenylazo, compd
with (COCl)₂ 3321th
- C₂₂H₁₀Cl₂O₂ Decopimarol, α -o-n-dichloro-,
4879th
- C₂₂H₁₀Co₂N₂O₂ 1(2) Phthalazone, 4 hydroxy
Co deriv pyridine complex, 4001th
- C₂₂H₁₀Co₂N₂O₂ 1(2) Phthalazone, 4 hydroxy
Co deriv pyridine complex, 4001th
- C₂₂H₁₀N₂ Anthracene, bis(ammonophenyl), P
3363th
Benzophenone xone 4218th
- C₂₂H₁₀N₂O₂ Quinoxaline, 6,6 amino-, 2992th
- C₂₂H₁₀N₂O₂ Ethylenediamine, N nitro α β β β
tetraphenyl 942th
2 Naphthol, phenylazo, compd with
2 naphthol, 1218th
- C₂₂H₁₀N₂O₂ Benzophenone 4,4 oxybis(3
(and 4) amino- and di HCl, 2127th,
2128th

- C₂₅H₂₁N₂O₄ Benterothrene 4' 4' dimethoxy 2 (2' diazole 4202⁹)
 Papen 1 *β β* bis nitrobenzoyl 4733⁹
- C₂₅H₂₁N₂O₄ Acenaphthenequinone 3 acetyl 1 (phenoxyhydrazine) 1818
- C₂₅H₂₁N₂O₄ See Picoquinone
- C₂₅H₂₁N₂O₄ Anthraquinone 1 *α* bis 4 4 diamino phenylazo 1 181⁹
- C₂₅H₂₁O₅ 9 Aanthryl mercaptan 9 benzo hydryl 1240⁹
- C₂₅H₂₁O₅ Acetophenone *α* phenoxy *α α* diphenyl 943 1823⁹
 9 Fluoreneacetal 9 hydroy *α α* diphenyl 4878⁹
- C₂₅H₂₁O₅ Benzaldehyde *α* phenylmercapto benzoate 2413
- C₂₅H₂₁O₅ Acetophenone *α* 2 hydroy 1 oaphthyl *α* toluate 4883⁹
 Benzaldehyde *α* phenoxy benzoate 3984⁹
- C₂₅H₂₁O₅ 3 9 Perylene dicarboxylic acid di Et ester 9⁹
- C₂₅H₂₁S₂ Ketone diphenyl diphenyl mercaptole 931⁹
- C₂₅H₂₁S₂ Ethylene sulfide *α α* diphenyl *β β* bis (phenylmercapto) 931⁹
- C₂₅H₂₁N₂ Fthylideneamine *α β β* tetraphenyl 942⁹
- C₂₅H₂₁NO 3 Benzopropionamide 942⁹
- C₂₅H₂₁NO 3 Fluorene sulfonic acid benzoyl aniline salt 943⁹
- C₂₅H₂₁NO 3 Di *β* toluenesulfonamide *α α* 6 dimro 4 phenylphenyl 2⁹
- C₂₅H₂₁N₂O₅ Benzaldehyde benzyl [(*β* outo phenoxy)phenyl]hydrazine 912
- C₂₅H₂₁N₂O₅ (tetraphenyl) 930
- C₂₅H₂₁N₂O₅ (1) 2 (1) B benzarsate 1 1 d phenyl diformate 108⁹
- C₂₅H₂₁N₂O₅ Benzamide diphenyl p tolyl 693⁹
β Benzopropionamide hydrazine 942⁹
- C₂₅H₂₁N₂O₅ Di benzopropionamide 4 (2) acetyl 7 isopropyl 1 methyl 424⁹
- C₂₅H₂₁N₂O₅ 1 *α* Naphthylenediamine *α α* diamine 9814
- C₂₅H₂₁N₂O₅ Dipyrrole 2 *α* 1 1 *β* pyrazine 5 10 diol *α* 10 d hydroy di *β* toluate 2997⁹
- C₂₅H₂₁N₂O₅ Deoxybenzoyl *β* phenylazophenyl hydrazine 2132
- C₂₅H₂₁N₂O₅ Pyridazo 4 *α* aliphatic 1 9 diol 4 6 dihydyl 1824⁹
- C₂₅H₂₁O₆ Lithant 1 1 - 2 tetraphenyl 1824⁹
- C₂₅H₂₁O₆ Benzoylacet 4879⁹
 Diphenyl *β β* bis (benzoyl) 423⁹
- C₂₅H₂₁O₆ Benzene 1 (*β* methoxyphenoxy) 4 (*β* (*β* methoxyphenoxy)phenoxy) 1816⁹
- C₂₅H₂₁O₆ Resorcinol 4 6 (1 (m methoxy cinnamyl)) 13 6⁹
- C₂₅H₂₁O₆ 1 2 4 5 Benzene tetraol 7 6 di phenyl tetraacetate 363⁹
- C₂₅H₂₁O₆ Capric acid acetate 288⁹
- C₂₅H₂₁S₂ Fthyl mercaptan *α α β β* tetraphenyl 1240⁹
- C₂₅H₂₁ Benzaldehyde diol 213⁹
- C₂₅H₂₁N₂ Benz 4 cyanate iodide methyl ethyl 470⁹
- C₂₅H₂₁ 1 3 5 7 9 11 13 Tetradecahydraene 1 14 diphenyl 1719⁹
- C₂₅H₂₁N₂O₆ Arsenobenzene *α α* diamine (2) d formate 108
- C₂₅H₂₁ClFeN₂ Porphan 1 *α* dimethyl 2 6 diethyl benzo 112⁹
- C₂₅H₂₁CuN₂ Porphan, 1 5 - dimethyl 2 6 diethyl, Cu salt 112⁹
- C₂₅H₂₁EMeN₂O₅ 308⁹
- C₂₅H₂₁N₂O₅ Acetophenone *α* hydroy *α* salt pyridine compd, 2131⁹
- C₂₅H₂₁N₂O₅ Cinchonone 6 methyl 7 *β* tolylsulfonamide Ester, 699⁹
- C₂₅H₂₁EtN₂O₅ 31⁹ 1 4 Cyclohexadienedi acetic acid 2 (4 bromo - 2 methyl) *α α* decano 3,6 diketo *α* methyl *α* Et ester 2410⁹
- C₂₅H₂₁N₂O₅ 3928⁹
- C₂₅H₂₁N₂O₅ Anthracene hexamethyl, perate, 1816⁹
- C₂₅H₂₁N₂O₅ *β* Veratric acid, *α* nitro 6 (2 2 5 5 tetramethoxy - 4 4 - di nitrobenzohydryl) 4019⁹
- C₂₅H₂₁CuN₂O₅ Cinnamic acid, *α* acetyl *β* hydroy *α* Et ester Cu deriv 2976⁹
- C₂₅H₂₁N₂ Retene acetyl phenylhydrazine 544
- C₂₅H₂₁N₂ Porphan, 1 *α* dimethyl 2 6 diethyl 112⁹
- C₂₅H₂₁N₂O₅ Propiophenone *β* phenyl *α* - 1 pipendyl picrate, 911⁹
- C₂₅H₂₁N₂O₅ Quinone diamine *α α* bis (2,4 diacetamidophenyl) 926⁹
- C₂₅H₂₁N₂O₅ Rudopin, 2 6 diglucose, di Na deriv 3993⁹
- C₂₅H₂₁N₂O₅ 6 Benzoyloxy - 3 4 dihydro 2 methyl 1 (2 nitroethyl)isoquinoline iodide, 4002⁹
- C₂₅H₂₁NO Propiophenone *β β* diphenyl *α* 1 pipendyl 3000⁹
- C₂₅H₂₁NO₂ Anthraquinone 9 monom salt 1 5 dihydroy 2 6 diglucose, 4261⁹
- C₂₅H₂₁N₂O₅ 1 2 *α* Pentamethyl tricarbamate 476⁹
- C₂₅H₂₁N₂O₅ 1 Methylquinolizinium iodide, compd with *p*-phenylenediamine, 2420⁹
- C₂₅H₂₁MeN₂O₅ 308⁹
- C₂₅H₂₁N₂O₅ Quinone anisals 1, 2, 3 4 tetrahydro 2992⁹
- C₂₅H₂₁N₂O₅ Quinacetic acid, wethylene salt, 269⁹
- C₂₅H₂₁N₂O₅ Maleic acid di Me ester, compd with benzaldehyde, 2419⁹
- C₂₅H₂₁N₂O₅ Clutene benzaldehyde, 904⁹
- C₂₅H₂₁O₆ Quinone 2, *α* bis (*β* - butoxyphenyl) 363⁹
- C₂₅H₂₁O₆ Galactoside *β* methyl 6-trityl ether, 2435⁹
- C₂₅H₂₁O₆ *α* Veratric acid 6 (2 2, *α α* tetramethoxy benzohydryl) 4019⁹
- C₂₅H₂₁O₆ Hexamethoxy compd from capric acid and EtN₂O₅ 383⁹
- C₂₅H₂₁O₆ Anthraquinone diglucose 4762⁹
- C₂₅H₂₁NO 2 Butanone 4 diethyl amine 1 3 4 triphenyl, 3641⁹
- 1 Propanol 1 1 3 triphenyl 2 (1-phenyl) 3000⁹
- C₂₅H₂₁NO₂ + H₂O Anthraquinone 9 monom salt 1 5 8 trihydroy 2 cellobiose 4261⁹
- C₂₅H₂₁N₂O₆ Camphor 3 [*α* acetyl] *β* (V acetyl) anisamine 98
- C₂₅H₂₁O₆ Acetoacetic acid *α α* bis (2 4 5 trimethoxybenzoyl) Et ester 513⁹
- C₂₅H₂₁NO₂ Anthraquinone - 9 monom salt hydrate 1 hydroy 2 cellobiose, 4 61⁹

- C₂₇H₄₁N₂O₄ 4 - Isopyrrolidopropionic acid, 2 [5 - amino - 3 - (β carboxyethyl) 4 methyl 2 pyrrolidymethylene] 3,5 dimethyl di Me ester and HBr 2432^a 2433^a
- C₂₇H₄₁ClN₂Pt Quinobac 2 - (ammonomethyl) 4 ethyl 3 methyl ammonio Pt chloride salt 5862^a
- C₂₇H₄₁N₂O₄ Camphor V Y β phenyleneis [3 amino- 28^a
- C₂₇H₄₁N₂O₄ Compd m 265^a from Ft base hexahydrohydronylidene 2 cyanoacetate and EtONa 3333^a
- C₂₇H₄₁N₂O₄ 2 α selenophenediacetate, he acid tetrahydro- quinone salt 4262^a
- C₂₇H₄₁N₂ Ketone has (3,5 dimethyl 2 pyrrol) amine 5807^a
- C₂₇H₄₁O₄ Diam methyl 1719^a
- Trisulphic acid dihydroxy 1500^a
- C₂₇H₄₁N₂O₄ Lymane N^a benzoyl V^a (V benzoyl) 2974^a
- C₂₇H₄₁Cl₂O₄ Cellulose diolide heptaacetyl 2 hydroxy 3317^a
- C₂₇H₄₁Cl₂N₂Pt 1,2 Propanediamine chloroplatinate compd 3862^a
- C₂₇H₄₁N₂ Quinoline 3 amyl 4 amino 2 hexyl and HCl 3317^a
- C₂₇H₄₁N₂O₄ Chitosan V benzenesulfonyl 1224^a
- C₂₇H₄₁O₄ Cellulose heptaacetyl 2 hydroxy 3317^a
- Cellulose heptaacetyl 2 hydroxy 3317^a
- C₂₇H₄₁O₄ Cellulose heptaacetate 3318^a
- C₂₇H₄₁ClO₄ Cellulose acetochloro- 4528^a
- Mallote heptaacetylchloro- 86^a
- C₂₇H₄₁N₂O₄ Cyclohexylamine N (β benzyl 4 phenylamyl) acetoacetate 1810^a
- C₂₇H₄₁NO₄ Ethanol 2 amino 1,2 di β amyl camphorsulfonate 1240^a
- C₂₇H₄₁N₂O₄ Lymane N^a benzoyl V^a (V benzyl) 2974^a
- C₂₇H₄₁FeN₂ Compd from camphene and H₂ 1e(CN)₂ 2710^a
- C₂₇H₄₁N₂O₄ Camphor V Y β phenyleneis [3 amino- 28^a
- C₂₇H₄₁N₂O₄ Homopentacyclic alcohol α methyl α methyl β methylammonio acetate 4538^a
- C₂₇H₄₁N₂O₄ 1,3 Propanediamine triethyl methyl, bis(ethopercate) 5394^a
- C₂₇H₄₁O₄ Syssacetyl glucoside heptaacetate 3317^a 3318^a
- C₂₇H₄₁O₄ Mannose heptaacetyl 4 glucoside 689^a
- C₂₇H₄₁O₄ Cellulose heptaacetate hydrate 3318^a
- C₂₇H₄₁BrO₄ Dehydrochole acid bromo Et ester 2151^a
- C₂₇H₄₁N₂O₄ Piperazine methylenecamphor 1 β toluenesulfonyl 2,3,5,6 tetramethyl 4272^a
- C₂₇H₄₁N₂O₄ N Ethyl N methyl V N trimethylenebis[diethylammonium picrate] 5394^a
- C₂₇H₄₁N₂O₄ (γ Diethylammonio β methoxy propyl)triethylammonium picrate, picrate 5394^a
- β Methoxytrimethylenebis[diethylmethyl ammonium picrate] 5394^a
- C₂₇H₄₁O₄ Acid m 284^a, from pyroquimovic acid 5145^a
- C₂₇H₄₁O₄ Choleic acid, 6,7-diketo-, Ac deriv 3661^a
- C₂₇H₄₁O₄ β Desoxythiolanic acid, 6 - hydroxy lactone di Me ester, 3662^a
- C₂₇H₄₁O₄ Isotrophantholonic acid, Ac deriv Me ester 4884^a
- Aceto ester m 210^a 5173^a
- C₂₇H₄₁NO₄ Oxime m 210^a of keto acid, 5173^a
- C₂₇H₄₁N₂O₄ Ethelone 3,4 dimethoxy acetate 4335^a
- Oxalate m 147^a (decompo) of Me ether of base from isochavicol acetate, 4335^a
- C₂₇H₄₁O₄ See 1-glycerol
- C₂₇H₄₁O₄ Acetic acid triethyl ethyl γ methyl 1 pentamyl 5530^a
- C₂₇H₄₁O₄ Acid m 181^a (decompo), from pyroquimovic acid 5146^a
- C₂₇H₄₁O₄ Trimethyl ester m 190^a, of triacid 5173^a
- C₂₇H₄₁BrCl₂N₂O₄Pt V Benzyl V β bromo benzyl N N (β methoxytrimethyl ene)bis[diethylammonium chloroplatinate] 3394^a
- C₂₇H₄₁Cl₂N₂O₄Pt β Methoxytrimethylenebis[benzyltriethylammonium chloroplatinate] 3394^a
- C₂₇H₄₁O₄ Tigogonin 172^a
- C₂₇H₄₁O₄ 5 m Diosanol 2 phenyl, palmate 70^a
- 1,3 Dioctolane 4 carbinol, 2 phenyl palmitate 6^a
- C₂₇H₄₁O₄ Compd, m 152^a from bromo 6,7 diketocholanic acid and MeOH, 3661^a
- C₂₇H₄₁N₂O₄ See Glycocholic acid
- C₂₇H₄₁O₄P Bis(β diacetonolactone) 1 phosphoric acid Ester 4148^a
- C₂₇H₄₁O₄ Euphorbodiene 3657^a
- C₂₇H₄₁Cl₂P₂Pt Diethylmethyl 2 o xylol phosphonium chloroplatinate 2702^a
- C₂₇H₄₁O₄ Eucosanoic acid Ph ester 277^a
- C₂₇H₄₁NO₄ Tauronolthocholic acid, 1534^a
- C₂₇H₄₁Br₂O₄ Euphorbiol dinamide 3657^a
- C₂₇H₄₁N₂O₄ Tetraisoamylammonium picrate 2626^a
- C₂₇H₄₁O₄ Euphorbol 3656
- C₂₇H₄₁O₄ Euphorbol dihydro- 3657^a
- C₂₇H₄₁O₄ 1,14 Cyclohexacosanedione 922^a
- C₂₇H₄₁N₂O₄ Leucine V | V | N (V leucyl glycidyl)leucylglycidyl isobutyl ester HCl 2742^a
- C₂₇H₄₁O₄ Cyclohexacosanoic 922^a
- C₂₇H₄₁O₄ Tetraacosanoic acid Et ester 113^a
- C₂₇H₄₁O₄ Lauric acid ethylene ester 3313^a
- C₂₇H₄₁Cyclohexanoic 922^a
- C₂₇H₄₁O₄ Cerotic acid 25^a
- Hexacosanoic acid 189^a 1271
- Phtholic acid, 128^a 3653^a
- C₂₇H₄₁ Hexacosane 4774^a
- C₂₇H₄₁O₄ Hexacosanol 1271^a
- C₂₇H₄₁Am₂Cl₂Pt Triisopropylmethylammonium chloroplatinate 1483^a
- C₂₇H₄₁O₄ 1 β Naphthalenophenecarboxylic acid, 2,2 carbonylides, anhydride 5167^a
- 3 Thophanthrenecarboxylic acid, 2,2 carbonylides anhydride 5167^a
- C₂₇H₄₁O₄ 1 β Naphthalenophenecarboxylic acid, 2,2 carbonylides 5167^a
- 3 Thophanthrenecarboxylic acid, 2,2 carbonylides, 5167^a
- C₂₇H₄₁Cl₂N₂O₄ Dibenz(o)anthene 14 ol, 14 (o chlorophenyl) dimine deriv 2914^a

- C₁₁H₁₃O₄ Compd m 211.2°, from HCl and anthrahydroquinone, 948¹
- C₁₁H₁₃O₄ 9 - Anthrol, 1,5 diphenoxy acetate 2140¹
- Diacetate, m 224°, ol compd m 247° 5418¹
- C₁₁H₁₃O₄ 1,8 - Benzoflavone 3 amoyl 4 methoxy, 4267¹
- C₁₁H₁₃ Methyl, (1 naphthyl)phenyl(p phenyl phenyl), 5629¹
- C₁₁H₁₃ ClO₄ 2 Naphthol 1 (m chloro m (2 methoxy 1 naphthyl)benzyl), 1825¹
- C₁₁H₁₃ Anthracene 1,4 dimethyl 9,10 di phenyl 2093¹
- 9,9 Bisnoroce 9,9 dimethyl 3084¹
- Compd, m 166.7°, from the la deriv of 3 phenylindene and PhClBr 1517¹
- Indene 1 benzohydryl 2 phenyl 1517¹
- Naphthalene 1,4 dihydro 1,2,3 tri phenyl 4256¹
- C₁₁H₁₃ClN₂O₂ Benzidine N N bis(chlorovanillal) 945¹
- C₁₁H₁₃Cl₂O₄ (3,3 Bi Δ¹ 1,2 cyclohexenedicarboxylic chloride) 6,6 diphenyl 1514¹
- C₁₁H₁₃N₂ Pyridazine 4,5 dihydro 4,4,5,5 tetraphenyl 4234¹
- Quinaldine 4 anilino m 3 diphenyl end HCl 2431¹
- C₁₁H₁₃O 9(10) Phenanthrene 10,10 di p tolyl 4878¹
- C₁₁H₁₃O₂ Ketone p anisyl 9 p anisyl 9 fluoryl 4879¹
- 9(10) Phenanthrene 10,10 dianisyl 4878¹
- C₁₁H₁₃O₂ Anthrone 10 ethoxy 1,5 diphenoxy 2140¹
- C₁₁H₁₃O₂ (3,3 Bi Δ¹ 1,2 cyclohexenedicarboxylic anhydride) 6,6 diphenyl 1514¹
- C₁₁H₁₃NC Anthrone 10 (p dimethylamino phenyl) 2 phenyl 4546¹
- C₁₁H₁₃N₂O₂ (1,4 Bisobenzoxolan) 2,1 (1,2) dione 2 (2,5 dimethoxy 4 nitrophenyl) 3,4,5,6 tetramethoxy 3,6-diastro- 4519¹
- C₁₁H₁₃ Bntene 1,1,4,4 tetraphenyl 3378¹
- Compd m 182-4° formed by the reduction of a compd m 166-7° 1517¹
- Ethylene 1,1 diphenyl 2,2 di p tolyl, 1240¹
- Indan 1 benzohydryl 2 phenyl 1517¹
- Naphthalene, 1,2,3,4 tetrahydro 1,2,3 triphenyl 4256¹
- C₁₁H₁₃Br₂O₄ Benzene 1,5 dimethoxy 2,4 bis (m methoxycinnamyl) dibenzo deriv 1526¹
- C₁₁H₁₃Br₂O₄ Hydroquinone 2,5 dihydro 3,6 bis(1,6 dibromo 2 methyl) diacetate 940¹
- C₁₁H₁₃N₂O₂ Oxamide N N dibenzyl 2947¹
- C₁₁H₁₃N₂O₂ Hydrobenzoin diacarbamate 4544¹
- C₁₁H₁₃N₂O₂ Amine, p [p (p amino phenoxy)phenoxy] di Ac de siv 1816¹
- C₁₁H₁₃N₂O₂TI + 4H₂O, 3926¹
- C₁₁H₁₃N₂O₂ Piperonal 6 m tolyl bis(phenyl hydrazone) 297¹
- C₁₁H₁₃N₂O₂ Crochomamide, N anisylpyr 1,6 methoxy 2 phenyl 4883¹
- C₁₁H₁₃O Carbinol diphenyl(3 phenyl 1 indanyl), 1517¹
- C₁₁H₁₃O₂ Compd m 165° from benzophenacolonic and AcCl 4254¹
- 1 thylene 1,1 di p anisyl 2,2 d phenyl, 942 1240¹
- 9 Fluoreneacbinol 9 hydroxy m m di p tolyl 4878¹
- Mentol m² m² d phenyl benzoate 7635¹
- Propionic acid m,β β β tetraphenyl (?) Me ester 4254¹
- C₁₁H₁₃O Fluoreneacbinol m m dianisyl 9 hydroxy 4878¹
- C₁₁H₁₃O Galactose Δ¹ crude 2,3,4 tri benzol β methyl 5149¹
- C₁₁H₁₃O Perillanin HCl 3907¹
- C₁₁H₁₃O Perillanin HCl 3907¹
- C₁₁H₁₃O Galactoside β methyl tribenzoate 5149¹
- C₁₁H₁₃NO 2 Butanone 4 anilino 1,3,4 tri phenyl 3641¹
- C₁₁H₁₃NO Ethanol o benzylamino 1,2 di phenyl Be deriv 1819¹
- C₁₁H₁₃Br₂O₄ Quinone 2,5 bis(1,6 bromo 2 methyl) 3,6 dihydroxy diacetate 7640¹
- C₁₁H₁₃Br₂O₄ Hydroquinone 2,5 dihydro 3,6 bis(4 bromo 2 methyl) diacetate 940¹
- C₁₁H₁₃Cu₂N₂O₂ + 4H₂O Diphenylhydrazine cupriuret 20¹
- C₁₁H₁₃Ni₂O₂ Diphenylhydrazine nickeluref 20¹
- C₁₁H₁₃N₂ Benzamide N N N tri p tolyl 697¹
- C₁₁H₁₃O₂ 3,4 Xylenesulfonic acid 2 hydroxy 5 (phenylsulfamyl) isom cyclic sulfonhyd 691¹
- C₁₁H₁₃N₂ Benzyl diphenylazone 1488¹
- C₁₁H₁₃N₂O Ausaldehyde 2 m tolyl bis (phenylhydrazine) 297¹
- C₁₁H₁₃N₂O₂ Compd decomps 258° from bicyclopentadienequinone and PhN₂ 1507¹
- C₁₁H₁₃O 1 Butanol 1,1,4,4 tetraphenyl 3129¹
- Lthanol 1,2 diphenyl 1,1 di p tolyl 1240¹
- Ether, bis(m β d phenylethyl) 505¹
- C₁₁H₁₃O₂ Ethane 1,9 dimethoxy 1,1,2,2 tetraphenyl 942¹
- Ethanol 2 ethoxy 1,1,2,2 tetraphenyl 943¹
- C₁₁H₁₃O 3 Ethyl mercaptan m m di p anisyl β β diphenyl 1240¹
- C₁₁H₁₃O₂ Ethanol di p anisyl diphenyl 942¹
- 1240¹
- C₁₁H₁₃O₂ Benzene 1,5 dimethoxy 2,4 bis (m methoxycinnamyl) 1526¹
- C₁₁H₁₃O₂ (3,3 Bi Δ¹ 1,2 cyclohexenedicarboxylic acid) 6,6 diphenyl 1514¹
- C₁₁H₁₃O₂ Galactoside, β methyl tribenzoate 5149¹
- C₁₁H₁₃O₂ Chrysanth 2 acetogalactosyl 3992¹
- C₁₁H₁₃Br₂Cu₂N₂ Denteroctoporphyrin bromo-, Cu salt, 111¹
- C₁₁H₁₃ClO₂ 3 Oxabicyclo[3,3,1]nonane 9 one, 1 (m chlorobenzal) 5 methyl 2,4 diphenyl, 4237¹
- C₁₁H₁₃NO Anthraquinone, 1 amoo 2 aceto glyoxy, 4262¹
- Anthraquinone 9 monomine salt, 1 hydroxy 8-acetoglyoxy 4261¹
- C₁₁H₁₃N₂ Acetophenone, α (N methylanilino) benzylphenylhydrazine, 4533¹

- 1 1 (1 5 naphthylenedicarbonyl)bis-
5167^a
- C₂₆H Cl₂NO Anthraquinone 2 2 (α amino
p hydroxyethylene)bis(4 chloro 3
hydroxy 124^a)
- C₂₆H₁₁ Bezo[δ]naphtho[1 2 λ]chrysene 2717^a
- C₂₆H₁₁NO 2 Anthraquinone 2 2 vinylene di-
thioeth(1 amino 2724^a)
- C₂₆H₁₁N₂O₂ 2 Anthraldehyde 1 amino 9 10-
dihydro-9 10-d keto- anone 94^a
- C₂₆H₁₁N₂O₃ 3 3 Biquinoline dipicrate 5127^a
- C₂₆H₁₁O₂ Helianthrene 1 6 dimethoxy 1519^a
- C₂₆H₁₁O₃ Bezo[δ]thiophanthrene 6 11 dual
dibenzoate 1661^a
- C₂₆H₁₁O₄ Helianthrene 1 6 dihydroxy 2 a
dimethoxy 1130^a
- C₂₆H₁₁O₄ Benzenetricarboxylic acid (benzoyl)
94^a
- C₂₆H₁₁NO₂ Alizarin 3 3 (α amino p
hydroxyethylene)bis 1242^a
- C₂₆H₁₁Cl₂O₂ 1 4 Naphthalenediol 2 3 di-
chloro 1 4 dihydro 1 4 di 1 naph-
thyl 4039
- C₂₆H₁₁CuN₂O₂ Furazan 3 benzamide 4
phenyl Cu deriv 3573
- C₂₆H₁₁K₂O₁₂ + 20H₂O 3926
- C₂₆H₁₁N₂O₂ Naphthalenequinone 1 4 diamine-
162
- C₂₆H₁₁N₂O₂ Phtalamic acid \ V 9 10
phenanthrylamine and di \ a salt
3343^a
- C₂₆H₁₁N₂O₂ 1 3(2 4) Isoquinolinedione 4 4
biphenylenedisazobenzene 5459^a
- C₂₆H₁₁O₂ (Δ) Baccenaphthene 8 8 dione
2 3-dipropenyl 5674^a
- Δ⁸ Banthrone d methoxy 1019^a
- Ethylene tetrabenzoate 5640^a
- C₂₆H₁₁O₂ 6 13 Pentacenodione 7 12 14
tetrahydroxy tetracarboxylate 1118^a
- C₂₆H₁₁Br₂O₂ 10 10 Banthrone 10 bromo
3 3-dimethyl 1454^a
- C₂₆H₁₁N Triphenylamine P 209
- C₂₆H₁₁BrN₂O₂ Phenol p 1 naphthylazo
compd with Br₂Br 3322^a
- C₂₆H₁₁Cl₂O₂ 1 1 4 Cyclohexanediol 2 3
dichloro 1 3 4 6 tetraphenyl 4239^a
- C₂₆H₁₁N₂O₂ Bezo[δ]thiophanthrene 6 11
dione - 10-di p toluene 5160^a
- C₂₆H₁₁N₂O₂ Anthraquinone 3 4 dibenzamide
5 8-dimethoxy 3648^a
- C₂₆H₁₁N₂O₂ Bezo[δ]thiophanthrene 6 11
dione 7 10 di p toluene- trisulfo
deriv ari \ a salt 1866^a
- C₂₆H₁₁N₂O₂ 4(13) Quinoxalones 2 2 anthro-
bis(3-o-tolyl) 3002^a
- C₂₆H₁₁O₂ Naphthalene, 1 benzoyl 2 6 di-
methyl a-(1 naphthyl) 2717^a
- C₂₆H₁₁O₂ 10 10 Banthrone d methoxy 1019^a
- C₂₆H₁₁O₂ 10 10 Banthrone d hydroxy
d methoxy 1019^a 10 10^a
- C₂₆H₁₁O₂ Phyllobulin dibenzoate 3970^a
- C₂₆H₁₁NO₂ Ketone p amyl 1 4 dihydro 5
hydroxy 3 4 diphenyl 3 oxazacycl
benzoate 1031^a
- C₂₆H₁₁N₂O Naphthalene, 1 4-d benzyl, picrate,
1515^a
- C₂₆H₁₁Iodone 3 phenyl d wter 1017^a
- C₂₆H₁₁AgCl₂N₂O₂ Tris α,α dipyrrolylargentate
chlorate 1735^a
- C₂₆H₁₁AgCl₂N₂O₂ Tris α,α dipyrrolylargentate
perchlorate, 1735^a
- C₂₆H₁₁AgN₂O₂ Tris α,α dipyrrolylargentate
nitrate 1735^a
- C₂₆H₁₁AsN₂O₂ Phenazone 1 6 d hydro 1
oxo compd with benzene, 109^a
- C₂₆H₁₁Br₂N₂Ni + 6H₂O 5633^a
- C₂₆H₁₁Cl₂N₂Ni + 6H₂O 5634^a
- C₂₆H₁₁Cl₂N₂Ni + 6H₂O 5634^a
- C₂₆H₁₁N₂ Ketone 4 benzyl 1 naphthyl
phenyl phenylhydrazine, 1010^a
- C₂₆H₁₁N₂O₂ Pseudo nidoole, 3 3 dibenzyl 2
(m nitrosyl) , and tetrahydrochloride
1420^a
- 2 Pseudo nidoolealdehyde, 3 3 dibenzyl,
osone Br deriv 1420^a
- C₂₆H₁₁N₂ Azophenone 2224^a
- 1 Naphthaldehyde 6 (p formylphenyl),
bis(phenylhydrazine), 4000^a
- C₂₆H₁₁N₂NiO₂ + 6H₂O 5634^a
- C₂₆H₁₁O₂ 9 Anthrol 10 ethoxy 1 a di-
phenoxy acetate 2140^a
- C₂₆H₁₁O₂ Compd m 250 a^a from maleic
anhydride and (PhCH CHCH CHCH)
1014
- Compd m 200 a^a from maleic anhydride
and (PhCH CHCH CHCH) 1014^a
- C₂₆H₁₁O₂ Leucothelophoric acid, pentaacetate,
291^a
- C₂₆H₁₁S Thiophene dibenzoyldiyl, 2719^a
- C₂₆H₁₁AN₂ 3 (4 Ethyl) 5(4) 5 6 benzo-
quinolylidenemethyl) 4 methyl 5 6
benzoquinolylidenemethyl (?) 4260^a
- 3 Ethyl 3(4) 4 methyl 5(4) 5 6 benzo-
quinolylidenemethyl) 5 6 benzoquinone
hemiacetate (?) 4260^a
- C₂₆H₁₁N Pseudonidoole 3 3 dibenzyl 2 atyl
and HCl 5125^a
- C₂₆H₁₁ 9 9 Bithuene 9 9 diethyl 3984^a
- 1 a Hexadecene 1 1 6,6 tetraphenyl
1236^a 3378^a
- C₂₆H₁₁BrCl₂N₂O₂ Phenol p phenylazo,
compd with BrCH₂COC(1) 3321^a
- C₂₆H₁₁Br₂O₂ Resorcinol 4 6 bis(8 m amyl
α β dibenzoprop onyl) d acetate
1520^a
- C₂₆H₁₁Cl₂N₂O₂ An san ide 3 3 (α β dichloro
ethylidene)bis 5412^a
- C₂₆H₁₁CoN₂ 4 Isopyrrolenitrile 2 (4 cyano-
3 a dimethyl 2 pyrrolylmethyl)ene)
3 5-dimethyl Cu complex 698^a
- C₂₆H₁₁CuN₂ 4 Isopyrrolenitrile 2 (4 cyano-
3 5 dimethyl 2 pyrrolylmethyl)ene)
3 5-dimethyl Cu complex 698^a
- C₂₆H₁₁N₂O₂ 6 Indole[3 2 1 telacridin 3 one
6-amino- hydroxymethylencamphor de-
riv 2988^a
- C₂₆H₁₁N₂O₂ Phenol 2 benzamide 4 (1
isopropylbenzamide) benzoate 2984^a
- C₂₆H₁₁N₂O₂ Anthraquinone 1 4 dimethoxy
5 8-bis(p tolylsulfonamido), 3648^a
- C₂₆H₁₁N₂O₂ Capric acid phenylhydrazine,
220^a
- C₂₆H₁₁N₂O₂ Benzil bis(m tolylhydrazine)
1821^a
- C₂₆H₁₁O Cycloheptanone 3 4 4 a tetraphenyl,
1240^a
- C₂₆H₁₁O₂ 2 Butine 1 4 dimethoxy 1 1 4,4
tetraphenyl 1236^a
- C₂₆H₁₁BrN₂ Pyrazolone 3 (α β diphenyliso-
propyl) 1 a diphenyl, bromo deriv,
1420^a
- C₂₆H₁₁FeN₂O₂ 3,86^a
- C₂₆H₁₁N₂ Pyrazolone 3 (β β d phenyliso-
propyl) 1 5-diphenyl, 1421^a, 1421^a

- C₂₁H₂₀N₂O₂ Deuteroabodin 4279¹
 C₂₁H₂₀O₄ *p*-Disoane, 2,5 dimethoxy 2,3,5-trisubstituted, 100¹
 Bitylene, tetra *p*-amyl 1239²
 C₂₁H₂₀S₂ Ketene di *p*-tolyl di *p*-tolylmer capitate, 931¹
 C₂₁H₂₀S₂ Lithylene sulfide, *m* *m* di *p*-tolyl di *p*-tolyl (tolylmercapto) 931¹
 C₂₁H₂₀N₂ Pseudonucleole 3,3 dibenzylidenehydro 2 phenethyl, and sulfoxide 5425¹
 C₂₁H₂₀N₂O₂ Arlactone m 2,2' from 6 ethyl 2 (4-ethyl 5 formyl 2 methoxy phenoxy)acetaldehyde and hippuric acid, 2984¹
 C₂₁H₂₀N₂O₂ Glucosyl 6 amine acetonebenzoate 2121¹
 Idosyl 6 amine acetonebenzoate 2121¹
 C₂₁H₂₀N₂O₂ Anthraquinone 9 monaam salt hydrate 1 acetoxy 2 acetoglucoxy, 4261¹
 C₂₁H₂₀uv Dibenzoanthracene " 11 dibutyl, 2770¹
 C₂₁H₂₀Cu₂I₂N₂ Hexapropylmercuric iodide 682¹
 C₂₁H₂₀N₂ 3 Fenlanone 2 benzyl 1,5 di *p*-benzyl phenylhydrazine 542¹
 C₂₁H₂₀N₂ Benzyl benzylphenylacetone 1485¹
 C₂₁H₂₀N₂O₂ Deuteroporphyrin 3351¹
 C₂₁H₂₀O₂ Bulane 1,4 dimethyl 1,1,4,4 tetraphenyl 1236¹
 C₂₁H₂₀O₂ Ether bis(*p*-amyl *p*-phenyl ethyl) 504¹
 C₂₁H₂₀O₂ Anisole *p*,*p* *p* acetylenetetra ketone, 942¹
 C₂₁H₂₀O₂ Diethylidene bis(*p* *p* dimethoxybenzyl) 1239¹
 C₂₁H₂₀O₂ Anthraquinone 1,4(8) dimethoxy 2 acetoglucoxy 3992¹
 C₂₁H₂₀S₂ Disulfide bis(*p* *p* diphenoxyisopropyl) 942¹
 C₂₁H₂₀Cl₂FeN₂ Pyrochlorophyrin FeCl₂ deriv 112¹
 C₂₁H₂₀CuN₂ Pyrochlorophyrin Cu salt 112¹
 C₂₁H₂₀N₂ Andene *p* *p* (4 diphenoxyethylene)bis (1,4-dimethyl) 123¹
 C₂₁H₂₀O₂ 7,14 uv Dibenzoanthracenediol 7,14-dibutyl 7,14-dihydro-, 2716¹
 C₂₁H₂₀BrN₂ Pyrochlorophyrin bromo- 112¹
 C₂₁H₂₀N₂O₂ Camphor 1,4 naphthylene bis(3-amino) 98¹
 C₂₁H₂₀N₂ Pyrochlorophyrin 112¹
 C₂₁H₂₀N₂O₂ Alkane *N* (m antobenzoyl) quinine salt 2118¹
 C₂₁H₂₀O₂ See Picrotoxin
 C₂₁H₂₀Cl₂N₂O₂ Rhodamine 3B perchlorate 1,43¹
 C₂₁H₂₀N₂O₂ 2 Propanol 1,3 bis(dimethyl amino) dipicrate benzoate 539¹
 C₂₁H₂₀N₂O₂ Mesoxalic acid di Li ester *N* *N* *p* phenylene bis(*N* ethylhydrazine) 917¹
 C₂₁H₂₀N₂O₂ Dipicrate m 137¹ of compd b.p. 141-5° 3009¹
 C₂₁H₂₀N₂O₂P₂ Butacaphosphoric acid 4 phenyl quinine salt 4239¹
 C₂₁H₂₀N₂O₂S₂ Camphorsulfonic acid quinine salt 3322¹
 C₂₁H₂₀O₂ Acid m 244° (decompn) from triethylquinnic acid 5146¹
 C₂₁H₂₀O₂ Celluloseosone nonacetate hydrate, 3418¹
 C₂₁H₂₀N₂O₂S₂ See Simulins
 C₂₁H₂₀N₂O₂ Cellulose phenylsulfonate 4190¹
 C₂₁H₂₀O₂ Me ester m 240° of acid from an hydroquinone acid 5146¹
 C₂₁H₂₀O₂ Acyl m 275° (decompn) from an acetylquinone acid 5146¹
 C₂₁H₂₀BrO₂ Oxalobutylacetic bromo 291¹
 C₂₁H₂₀ClO₂ Nonyl chloride 5146¹
 C₂₁H₂₀O₂ Anthydroquinone acid 5146¹
 Azafin 1,1 ester 154¹
 Nonyl acid 5146¹
 C₂₁H₂₀O₂ Compd m 310 laon anhydroquinone acid 5146¹
 C₂₁H₂₀O₂ Cymarin 2768¹
 C₂₁H₂₀O₂ Cellulose heptaacetylbutyl 1499¹
 Cellulose heptaacetylbutyl 1499¹
 heptaacetylbutyl 1499¹
 C₂₁H₂₀N₂O₂ Chole acyl compd with Ph₂N₂O₂ 523¹
 C₂₁H₂₀N₂O₂ Piperazinebis(methylene)camphor 2,3,6 tetramethyl, 427¹
 C₂₁H₂₀O₂ Anthydroquinone acyl Me ester 5146¹
 Apodacyllobetulinol 291¹
 Dihydroquinone acid 5146¹
 C₂₁H₂₀O₂ Oxalobutylacetic 291¹
 C₂₁H₂₀O₂ Quinone acid 5146¹
 C₂₁H₂₀O₂ See Quinone
 C₂₁H₂₀N₂O₂ Oxalobutylacetic osime 291¹
 C₂₁H₂₀N₂O₂ Chole acyl compd with Ph₂N₂O₂ 523¹
 C₂₁H₂₀uv Amylene 2990¹
 C₂₁H₂₀BrO₂ Liemole acid dibromide 4502¹
 C₂₁H₂₀O₂ Apollolobetulinol 291¹
 C₂₁H₂₀O₂ Hydroquinone acylate 371¹
 Liemole acid 506¹
 C₂₁H₂₀O₂ (See also Liemole acid)
 Guercan 2472 4503¹
 Ursol acid 2131 566¹
 C₂₁H₂₀uv (See also Syntene)
 Amylene 2990¹
 2,6,10,14,18,22 Tetraacosabenzene 2,6,10,14,18,22 hexamethyl 1795¹
 C₂₁H₂₀N₂ Amylene hydrazine 2980¹
 C₂₁H₂₀O₂ Amylene 2283¹
 C₂₁H₂₀O₂ Acetate m 260-8° of alk m 245-55° 163¹
 Allolobetulinol 291¹
 Hederabitolol 5172¹
 C₂₁H₂₀O₂ Liemole acid dihydro 4532¹
 C₂₁H₂₀O₂ Hydroquinone 2,6-dichloro 567¹
 C₂₁H₂₀O₂ Triazene 1637¹
 C₂₁H₂₀uv Boronyl borate 4251¹
 C₂₁H₂₀Cl₂Pt₂ (*p* Litylphenyl)methylbisphosphoryl phosphonium chloroplatinate 253¹
 Methylchloropropyl 2,5 xyliphosphonium chloroplatinate 2702¹
 C₂₁H₂₀N₂O₂ Oleandride *p* (*p* diethylaminoethoxy) P 2436¹
 C₂₁H₂₀O₂ Hederabitolol dihydro 5172¹
 C₂₁H₂₀ClO₂ Aglicose m 208-10°, from panaxan 3439¹
 C₂₁H₂₀uv Triacostane 485 3021 4773¹
 C₂₁H₂₀N₂O₂ Chupene 35 3¹
 C₂₁H₂₀O₂ Ale m 68° from sapropel 89¹
 C₂₁H₂₀O₂ Teubroglucosyl 3403¹
 C₂₁H₂₀Cl₂N₂O₂P₂ Chole decyl chlozo platinate 2315¹
 C₂₁H₂₀Cd₂Cr₂N₂S₂ 392¹
 C₂₁H₂₀N₂O₂ Malonamide, V, N di 2 anthraquinonyl, 947¹
 C₂₁H₂₀N₂O₂S₂ 8 Indole[3,2,1-4]acridin 8-one 8 bis(phenylsulfonyl)amino 2998¹
 C₂₁H₂₀N₂O₂ Urea *p* bis(2-hydroxy 1 anthraquinonylmethyl), 1242¹

- C₁₅H₁₈N₂O₄ Diphenylamine 3,5-disubst. 2 (ph. n. isomomethyl) compd with 1,3-*o*-nitrobenzene 393⁴
- C₁₅H₁₆O₂ ? *α*-Naphthofuranone, 1,1-benzal 3340
- C₁₅H₁₂N₂O₂ Cupralone 6,6-benzalyl peroxide
- C₁₅H₁₂O₂ Carbazole benzalyl 2092²
- C₁₅H₁₀O₂ Urea 6,6-bis(2-phenyl-4-quinolyl) 4884
- C₁₅H₁₀O₂ Compd from [2+6] (C₁₀H₆)₂ C₁₀H₆ and 3,4-Me(C₁₀H₆)₂C₁₀H₆ 3993
- C₁₅H₁₀O₂ Naphthol 2 (2-*o*-cresylsulfonyl) in dimethyl sulfoxide 313¹
- C₁₅H₁₀Cl₂ Naphthol 2,1-chlorobenzaldehyde 290¹ 1875
- C₁₅H₁₀N₂O₄ + 6H₂O 610
- C₁₅H₁₀O₂ Acetic acid 1,1-naphthylphenylphenylphenylmethyldiacetate 1930¹ 3013
- C₁₅H₁₂N₂O₂ Diphenylamine *p,p'*-benzylidene sulfonic acid deriv. 2093²
- C₁₅H₁₀N₂O₂ Urea *o,o*-bis(4-nitrophenyl) 39
- C₁₅H₁₀N₂O₂ Diphenylamine *p,p'*-benzylidene sulfonic acid deriv. 2093²
- C₁₅H₁₀O₂ *α*-Cyclopentadienol 3,4-*o*-tetraphenyl compd with AcOH 68¹
- C₁₅H₁₂O₂ Ethyl 3-ethyl 3(4)-*o*-*o*-bromoethyldecanemethyl 2,6-benzoyl sulfonyl 40⁰
- C₁₅H₁₀NO Anthrone 1,2-diphenyl 10 (1-phenyl) 2146²
- C₁₅H₁₀O₂ Deuterioindane Me ester 4285¹
- C₁₅H₁₀O₂ 1,3-Dithiole 4,4-*o*-tetra-*p*-amyl 4-*o*-dibutyl 1930¹
- C₁₅H₁₀Br₂O₂ Pyroporphyrin bromo C₁₅ deriv. 111¹
- C₁₅H₁₀N₂Thioxanthene 9 (*p*-diethylammonophenyl) 2'-dimethyl 9-phenyl 1875¹
- C₁₅H₁₀Cl₂N₂O₂ Pyrohem 2 111¹ +
- C₁₅H₁₀N₂O₂ 3-Indolylcarboxylic acid, brucine salt 1874¹
- C₁₅H₁₀N₂O₂ 1,1-pyroporphyrin bromo, 111¹ +
- C₁₅H₁₀N₂O₂ 1,1-pyroporphyrin iodide compd with benzene 3426¹
- C₁₅H₁₀N₂O₂ 1,1-pyroporphyrin 111¹ + 384¹
- C₁₅H₁₀N₂O₂ Anthral 10-pyropyrrol 6-oxyl 1,2-dihydro 1-methyl 2-ethyl, compd with heptane 5423¹
- C₁₅H₁₀N₂O₂ 2-Methionine acid methyl, mono Ph ester brucine salt 4849¹
- C₁₅H₁₀NO 3-Hydrastine *α*-compoundsulfonate, 2143¹
- C₁₅H₁₀O₂ Monotroponic acid hexacetate, 365¹
- C₁₅H₁₀N₂O₂ Oxanthone 2730¹
- C₁₅H₁₀N₂O₂ 3-Lytraleptone acid, *α*-carboxy 1-10-*o*-carboxy 3-10-*o*-carboxyethyl 4-methyl 2-pyrimethyl 3-ethyl 4-methyl 2-pyrimethyl 4-methyl, diester 400²
- C₁₅H₁₀N₂O₂ Quinine 3-methyl, 2-*α*-amphor *α*-sulfonate 3227¹
- C₁₅H₁₀O₂ Diketone in 170-7° from oxidation of methyl sulfate 3061¹
- C₁₅H₁₀O₂ Ergosterol compd with maleic acid 401¹
- C₁₅H₁₀Cl₂Chloride compd with Br₂ 321¹
- C₁₅H₁₀O₂ Cellulose diheptaacetate *α*-acetyl 1472
- C₁₅H₁₀NO Monomer in 210-21° of diketone in 170-7°, 468
- C₁₅H₁₀O₂ Anhydropyroquinone acid, Et ester, 5146¹
- Dihydronurane acid Me ester 3663¹
- C₁₅H₁₀O₂ Ursolic acid Me ester 5068¹
- C₁₅H₁₀O₂ Cholic acid compd with benzyl alcohol 321¹
- C₁₅H₁₀O₂ Oxanthone bromobenzene 5172¹
- C₁₅H₁₀Cl₂O₂ Ergosterol chloroacetate, compd with chloroacetyl chloride 2733¹
- C₁₅H₁₀N₂O₂ Ursolic acid Me ester oxime 3663¹
- C₁₅H₁₀N₂O₂ Cholic acid, compd with *m*-toluidine, 321¹
- C₁₅H₁₀N₂O₂ Dryallobetolone semicarbazone, 291¹
- C₁₅H₁₀β Euphorbadiene 3637¹
- C₁₅H₁₀O₂ Ursolic acid Me ester, 5068¹
- C₁₅H₁₀O₂ (See also Guagenin, Oxanthone acetyl, 321¹)
- Caryophyllene 3172¹
- Olefinol 3172¹
- Sapogenin of manihot 5172¹
- Sapogenin of sugar beets 3172¹
- C₁₅H₁₀O₂ Hederae, 5171¹ 5172¹
- Hederae lactone, 5171¹
- C₁₅H₁₀O₂ Euphorbiol dibromide, 3637¹
- C₁₅H₁₀O₂ Euphorbiol, 3636¹
- C₁₅H₁₀O₂ Leucine 3,4-*o*-hydroxy methylphenyl(methylsulfonyl)urea, tri Et ester 491¹
- C₁₅H₁₀β Euphorbiol 3637¹
- C₁₅H₁₀β Euphorbiol dihydro 3636¹
- C₁₅H₁₀O₂ Compd from polymerized 3-*o*-hydroxy 2-hexanone anhydride and MeOH 485¹
- C₁₅H₁₀O₂ Hexacontanoic acid Ph salt, 28¹
- C₁₅H₁₀ 4912¹
- Hevtracotane 3433¹ 3663¹
- C₁₅H₁₀O₂ Urea 5-bis(3-hydroxypentadecyl), 5394¹
- C₁₅H₁₀O₂ (3-*o*-*o*-Br 3,2-*α*-anthra thiophene) 1,1,6,6,11,11-hexaoxide, 2,23
- C₁₅H₁₀AN₂NaO₂ + 3H₂O Sodium phthalimide-sulfonate 3663¹
- C₁₅H₁₀Br₂O₂ *α*-Dibutyl bis(α-keto-dihydro β-bromoindolene)bis, 293¹
- C₁₅H₁₀Cl₂N₂O₂ Compd from dichloromaleyl chloride and 1-aminonitroquinone, 422¹
- C₁₅H₁₀N₂O₂ (Benzylthio[2,1-β]pyrrole) dione, 948¹
- C₁₅H₁₀O₂ Perylene dicarboxylate 45 41¹
- C₁₅H₁₀O₂ Helianthrene 1,2,5,6-tetrahydroxy, 2-*o*-dicarboxylate, 1070¹
- C₁₅H₁₀N₂O₂ Oxanthone, 3,4-bis(2-methyl 1-anthraquinonyl) 947¹
- C₁₅H₁₀O₂ 1,11-Naphthodanthracenedione, 2,3,4,5-tetramethoxy, 1813¹
- 11,12-β-Naphthofuranone, 2,2-piper oxylidene, 3340¹
- C₁₅H₁₀O₂ 10,10-Benzanthrone 4,4-dihydroxy, dicarboxylate, 1813¹
- Helianthrene, 2,3,4,5-tetramethoxy, 1813¹
- 1(2)-β-Naphthofuranone, 2,2-vanillyl, 3340¹
- C₁₅H₁₀β Ethylene 1-bromo 1-phenyl 2,2-bis(β-phenylphenyl), 1816¹
- C₁₅H₁₀N₂O₂ Anthrone 10-aminoo-1,5-*o*-phenoxo, 2146¹
- C₁₅H₁₀β Ethylene 2-phenyl 1,1-bis(β-phenylphenyl) 1816¹
- C₁₅H₁₀β Anthrone 3-naphthylphenyl, oxide, 3340¹

- $C_{26}H_{21}Cl_2N_4O_4$ 1-henol β phenylazo-, compd with α -Cl $_{11}$ (COCl) $_2$ 3321¹
- $C_{26}H_{21}Cl_2O_{11}$ Cystophoric acid, tetra(chloroacetyl) deriv 2136¹
- $C_{26}H_{21}N_3O_5$ Naphthacenequinone, 1,4-di β -toluene, 162²
- $C_{26}H_{21}N_4O_5$ Naphthacenequinone, 1,4-di β -tolylsulfonamide, 316²
- $C_{26}H_{21}N_4O_5$ 1,3(2,4) Isoquinolinedione, 4,4-(α , α' -dimethylphenyl)enebisazobenzene, 3618²
- $C_{26}H_{21}N_4O_5$ 1,3(2,4) Isoquinolinedione, 4,4-(α , α' -dimethylphenyl)enebisazobenzene, 3648²
- $C_{26}H_{21}N_4O_5$ See Congo red
- $C_{26}H_{21}N_4O_5$ + 3H $_2$ O 3638²
- $C_{26}H_{21}O_4$ 2,3,4,5-Bisazobenzene 2,2,3,3-tetramethoxy, 1519¹
- $C_{26}H_{21}O_4$ 1-thane pentaphenyl, 2530²
- $C_{26}H_{21}Cl_2O_8$ Compd decumys 225,30¹, from xylidene 1234¹
- $C_{26}H_{21}N_4O_5$ Diphenylamine, β - β' -piperonyl derivatives, 2932¹
- $C_{26}H_{21}N_4O_5$ 8 In toto 3,2,1,4-acetone-8-one 6-amino-, benzene deriv, 2239²
- $C_{26}H_{21}O_4$ Ethanol 2 phenol, 1,1,2,2-tetraphenyl, 943¹, 1823¹
- $C_{26}H_{21}O_5$ Disulfide, bis(carbomethoxydiphenylthianetyl) 4254¹
- $C_{26}H_{21}O_5$ Spunicyclobexane 1,8-endothene 3,6-diol dibenzoate, 3614¹
- $C_{26}H_{21}O_5$ 10,10 - 11-anthracene, tetramethoxy, 1519¹, 1520¹
- $C_{26}H_{21}O_5$ 4 Chromanone, 7,8-dihydroxy 3-venatryl, diacetate 1531¹
- $C_{26}H_{21}O_5N_2O_2$ 3 Iyazolo 3 methyl 1-phenyl 4 phenylazo- Co deriv, 3332¹
- $C_{26}H_{21}O_5N_2O_2$ 3 Pyrazolo 3 methyl-1-phenyl 4 phenylazo- Cu deriv, 3332¹
- $C_{26}H_{21}N_4O_5$ Phenol, 8-methoxy-2-(α -imino- γ -phenylallyl) benzene, 2131¹
- $C_{26}H_{21}N_4O_5$ Iyazone, 2,3,5,6-tetraphenyl, 1,4-dioxide compd with AcOH 149²
- $C_{26}H_{21}N_4O_5$ 1-iminodiphenylamine acid putrescine salt 101¹
- $C_{26}H_{21}N_4O_5$ 5 Pyrazolo 3 methyl 1-phenyl 4 phenylazo- N deriv, 3332¹
- $C_{26}H_{21}O_5$ 3,4(2,5) Furandione 2,2,5,5-tetraphenyl, oxime, 2713¹
- $C_{26}H_{21}NO_4$ Anthraquinone, acetoglucoxy O-acetyl (?), 4261¹
- $C_{26}H_{21}$ 1,7-Octadiene 1,8,8-tetraphenyl 1236¹, 3329¹
- $C_{26}H_{21}Br_2O_5$ 1,2,4,5-Benzenetetracarboxylic (3,5-dibromo-2-methyl) tetraacetate, 3640²
- $C_{26}H_{21}ClN_4O_5$ Nicotinic acid 2,12-carboxy 6-chlorophenyl) cyanobenzene salt 106¹
- $C_{26}H_{21}N_4O_5$ 5 Pyrimidineneacetylbenzene 1,2,3,4-(α , β) tetrahydro 4-methyl 1,2,3,6-tetraphenyl (?) Et ester, 793¹
- $C_{26}H_{21}O_5$ 2 Butiro 1,4-diol, tetraphenyl, 2713¹
- $C_{26}H_{21}O_5$ Anthraquinone 1,4(α)-diacetoxy 8-acetoglucoxy 3992¹
- $C_{26}H_{21}NO_4$ Anthraquinone 9-monosulfonate salt hydrate 1-acetoxy 2-acetoglucoxy, Ac deriv 461¹
- $C_{26}H_{21}$ Cyclohexane 1,2-dibenzohydril, 1236¹
- $C_{26}H_{21}Au_2Br_2N_4O_5$ Haasium succinimidocarbonate, 464²
- $C_{26}H_{21}Br_2N_4O_5$ Deuteroisopropyl bis(hydro) diacetate methyl 1,1,112¹
- $C_{26}H_{21}Br_2O_5$ 1,2,4,5-Benzenetetracarboxylic (3-bromo-2-methyl) tetraacetate 1649²
- $C_{26}H_{21}Cl_2N_4O_5$ 1,7,8-tetramethyl ethyl 6,7-dipropionic acid) β -complex 4260¹
- $C_{26}H_{21}ClN_4$ 1-piperazine 1 (β -chloro β , β , β -tetraphenylisopropyl) β -1,3000¹
- $C_{26}H_{21}CuN_4O_5$ 1-piperazine 1,3,5,8-tetramethyl ethyl 6,7-dipropionic acid) Cu deriv 460¹
- $C_{26}H_{21}BrCuN_4O_5$ 1-piperazine isomom-ester Cu deriv 111¹
- $C_{26}H_{21}BrN_4O_5$ 1-piperazine 1,3,5,8-tetramethyl ethyl 6,7-dipropionic acid) Cu deriv 460¹
- $C_{26}H_{21}NO_4$ 1-piperazine 1,1,3,3-tetraphenyl 2 (1-piperidyl) 3000¹
- $C_{26}H_{21}Br_2O_5$ Quinone 2,5-bis(hydro) diacetate 3644¹
- $C_{26}H_{21}Cl_2N_4O_5$ Haasium of pyriporphyria Me ester 111¹
- $C_{26}H_{21}N_4O_5$ Deuteroisoporphyrin di Me ester 3331¹, 5431¹
- $C_{26}H_{21}N_4O_5$ 1-piperazine 1,3,5,8-tetramethyl ethyl 6,7-dipropionic acid) 4260¹
- $C_{26}H_{21}N_4O_5$ 1-piperazine 1,4,5,8-tetramethyl 2,5,6-tetramethylamino 961¹
- $C_{26}H_{21}O_5$ 1,8-Octanediol, 1,8,8-tetraphenyl 1236¹
- $C_{26}H_{21}O_5$ Galactonide β -methyl 3-isulyl ether 2,3,4-triacetate 614¹
- $C_{26}H_{21}Br_2N_4O_5$ 1-piperazine isomom, Me ester 111¹
- $C_{26}H_{21}Au_2O_5$ Diphenylhydrosulfate 4220¹
- $C_{26}H_{21}Cl_2O_5$ Tetra bis (β -phenylthioureoy chloride) 175¹
- $C_{26}H_{21}N_4O_5$ 1,7,8-tetramethyl ethyl 6,7-dipropionic acid) Me ester 4231¹
- $C_{26}H_{21}N_4O_5$ 1-piperazine 1,2,3,4-tetramethyl ethyl 6,7-dipropionic acid) Me ester 121¹, 4689¹, 5431¹
- $C_{26}H_{21}N_4O_5$ 1-piperazine isomom hydroxymethyl 3332¹
- $C_{26}H_{21}Br_2N_4O_5$ 1-piperazine isomomethyl, Me 3353¹
- $C_{26}H_{21}N_4O_5$ Camphor β , β' -thiobis(3-phenyl amino- 961¹
- $C_{26}H_{21}N_4O_5$ Camphor γ , γ' -1,4-naphthyl enol (3-aminoethylene) 1234¹
- $C_{26}H_{21}N_4O_5$ 1-piperazine isomom 1,716¹, 5431¹
- $C_{26}H_{21}N_4O_5$ 3,5-Benzoic acid, α -methyl 2-methyl 2,3,4,5-tetrahydroquinone 2195¹
- $C_{26}H_{21}NO_5$ 2-Naphthol 1 (α -1-piperidyl) camphorsulfonate 512¹
- $C_{26}H_{21}CuN_4O_5$ 3-Toluene β , β' -methoxy isopropylidene Cu deriv, 297¹
- $C_{26}H_{21}N_4O_5$ Mesoxalic acid, di Et ester N,N -dimethyl β -phenylenebis(N -ethyl hydrazone) 917¹
- $C_{26}H_{21}N_4O_5$ Mesoxalic acid di Et ester N,N -dimethoxy β -phenylenebis(N -ethyl hydrazone) 917¹
- $C_{26}H_{21}O_5$ Acid m 278¹ (decomp), from triacetogluconic acid 414¹
- $C_{26}H_{21}Au_2N_4O_5$ + 3H $_2$ O Barba succinimidocarbonate, 4663²

- C₃₅H₄₆O₄ Carborin acetyl 3607
 C₃₅H₄₆O₅ Celluloside heptaacetylhexyl 1499
 C₃₅H₄₆N₂O: See 1 *protein*
 C₃₅H₄₆N₂O: Hydrantonic acid cholesteryl ester 4728
 C₃₅H₄₆O: Elemolic acid acetate 4528
 Guagenin Ac deriv 2132
 Liscolic acid acetate 2709
 C₃₅H₄₆O: Oleonic acid Me ester 3172
 C₃₅H₄₆Cl₂O₃Pt: An 5-yl butylmethyl phosphonium chloroplatinate 983
 C₃₅H₄₆O: 11 Cichodolactone 929
 C₃₅H₄₆O: 3 Palmitic acid α dithiols 982
 C₃₅H₄₆O: Acetate m 64° of alc m 63° 89
 Dotracontanoic acid Ph salt 27
 C₃₅H₄₆O: Cocerin 6004
 C₃₅H₄₆O: Dotracontane 9040 4661
 C₃₅H₄₆Cl₂Pt: Triamimethylarsonum chloroplatinate 1483
 C₃₅H₄₆N₂O: 3 Choline acetyl α methyl succinate 63
 C₃₅H₄₆N₂O: 2 Anthraquinonecarboxylic acid 4,4' methylenedioxy 1212
 C₃₅H₄₆N₂O: 3 Cres 3,4,5 phenyl 4 quinolyl carbonyl 4583
 C₃₅H₄₆O: Benzene-2-carboxylic acid tribenzoyl Me ester 97
 C₃₅H₄₆S₂: Naphthyl ketane di Ph mercaptide 2131
 C₃₅H₄₆N₂O: Benzopropion oxime Br deriv 942
 C₃₅H₄₆N₂O: Anthrone 10 (1) methylanthrone 1 d phenony 1440
 C₃₅H₄₆N₂O: Carbazole benzaldehyde methyl 1992
 Isodactyl 3 d hydride 1 2 3 4 5 penta phenyl and deriv 1070
 C₃₅H₄₆N₂: Compd from PhCH₂NHPh HCl ZnCl 3074
 C₃₅H₄₆N₂O: Urea 1 2 3 methoxy 2 phenyl 4 quinolyl 4681
 C₃₅H₄₆O: Ethanol 1 1 2 2 tetraphenyl benzene 1240
 C₃₅H₄₆N₂O: Ethanol 1 1 2 2 tetraphenyl carbamate 1240
 C₃₅H₄₆N₂O: Benzaldehyde dihydrazone with α α' nitrobenzals p phenylene b hydrazine 130
 C₃₅H₄₆N₂O: Benzaldehyde dihydrazone with α α' salicylals p phenylene b hydrazine 1007
 C₃₅H₄₆N₂O: Salicylaldehyde dihydrazone with benzaldehyde benzaldehyde 4862
 Salicylaldehyde benzaldehyde bis(phenyl hydrazine) 4862
 C₃₅H₄₆N₂O: Salicylaldehyde dihydrazone with α α' salicylals p phenylene b hydrazine 1507
 C₃₅H₄₆O: 2 Propenol, pentaphenyl, 4754 4240
 C₃₅H₄₆O: 3 Propenol 1 1 2 3 3 penta phenyl 911
 C₃₅H₄₆O: Pentaerythritol tetrabenzoate 1801
 C₃₅H₄₆Comp: 1 293 from comp m 194-9°, 2988
 C₃₅H₄₆N₂: D phenylamine, p p' benzaldehyde methyl 2974
 C₃₅H₄₆Cl₂N₂O: Nicotinic acid 2 (2 carboxy 6-chlorophenyl) diamine salt 1061
 C₃₅H₄₆O: Alcohol 1 240, from comp m 198-9°, 2988
 C₃₅H₄₆O: Salicylic acid β O triphenylmethyl β lactone, Me ester 5677
 C₃₅H₄₆O: Gemston hexacetyl, 5675
 C₃₅H₄₆Br₂O: Phylloerythrin 3303, 5847 and K salt 1830
 Pseudophylloerythrin, 1830, 2381
 C₃₅H₄₆N₂O: Chlorin 3 3659
 C₃₅H₄₆N₂O: Chlorophyllin 31, 3303
 C₃₅H₄₆N₂O: Porphyrin 3353
 C₃₅H₄₆O: Compd m 198-9°, from di Me carboxylate and PhMgBr, 2988
 C₃₅H₄₆O: Carboxylic acid, p thymoxypheyl ester 2814
 C₃₅H₄₆N₂O: Phylloerythrin, oxime 1835, 3302
 Pseudophylloerythrin oxime, 1835
 C₃₅H₄₆N₂O: (See also Ergosterin)
 Chlorophyllin oxime, 3353
 C₃₅H₄₆N₂O: Pyrochlorin α Me ester Co deriv, 1830
 C₃₅H₄₆N₂O: Detoxophylloerythrin, 1830, 3353
 Isophosphoryl 3353
 C₃₅H₄₆N₂O: See *Bilirubin*
 C₃₅H₄₆N₂O: Alamine V (α nitrobenzoyl), bromide salt 2113
 C₃₅H₄₆N₂O: Phylloerythrin, hydrazine 1835
 C₃₅H₄₆N₂O: Camphor p p' methylenebis(3 phenylamino) 98
 C₃₅H₄₆N₂O: Porphin 6 propionic acid 1 3 6 6 7 pentamethyl 2 d ethyl, Me ester, 1830
 Pyrochlorin α Me ester, 1830
 C₃₅H₄₆Cr₂O₄: 10H₂O Guanid α α' (α methylbenzyl) Ce oxalate salt, 4534
 C₃₅H₄₆N₂O: Chlorin f Me ester 1256
 C₃₅H₄₆N₂O: Mesolactone 1830
 C₃₅H₄₆N₂O: 1 Butanephosphonic acid, 4 phenyl bromide salt 4234
 C₃₅H₄₆N₂O: Camphor p p' methylenebis(3 amino) 98
 C₃₅H₄₆N₂O: Isopropyl 3 (4 acetyl 3 5 dimethyl 2 pyrrylmethyl) 2 (5-4 acetyl 3 5 dimethyl 2 pyrryl methyl) 4 ethyl 3 methyl 2 pyrryl methylene 4 ethyl 3 methyl and HBr 3356
 C₃₅H₄₆N₂O: Mesobilirubinogen 1837
 C₃₅H₄₆O: Dehydroergosterol compd with maleic anhydride, acetate 4003
 C₃₅H₄₆O: 2 Ethylmethylphenacylsulfonamide 809
 C₃₅H₄₆Cl₂Br₂O: Ethylmethylphenacylsulfonamide bis(2-chloroethyl) 609
 C₃₅H₄₆O: Ergosterol compd with maleic anhydride Ac deriv, 400
 C₃₅H₄₆N₂O: 1 2 Propenol, 3 (octyloxy) decarbanate, 684
 C₃₅H₄₆O: Guggenone Me ester, Ac deriv, 2432
 Oleonic acid acetate 5172 lactone acetate, 5172
 Urolic acid Me ester, acetate, 2152
 C₃₅H₄₆O: Phytosterol 2431 4003
 C₃₅H₄₆Br₂O: Phenylpicramide octabromo, 97
 C₃₅H₄₆N₂O: 3 Benzaldehydephosphorane 9 aldehyde 6 11 dihydro 6 11 diketone 5167
 C₃₅H₄₆O: 3 Benzaldehydephosphorane 8 11 dihydro 8 8 vinylene 5166
 C₃₅H₄₆Br₂O: 3 10 Pyrochlorin dibromo, di lactone 4874
 C₃₅H₄₆Br₂N₂O: Pyrochlorin 2,8 diphenyl, tetrabromide 292

- $C_{11}H_{11}N_2$ Dipyridopyrrole, 2,8-diphenyl-202⁴
- $C_{11}H_{12}N_2O_4$ Dianthracene-1,2-indanoyl anhydride, 948⁵
- $C_{11}H_{12}N_2O_6$ Perylene, 3,4-dibenzoyl, dimethoxy deriv., 297⁶
- Perylene, 3,9-dibenzoyl 4,10-dimethoxy-202⁴
- $C_{11}H_{12}O_4$ [3,3,11,7-mem-benzanthracene] 7,7-dione, P 166⁷
- $C_{11}H_{12}BrO_4$ Perylene 3,4-dibenzoyl, bromodene, 292⁶
- $C_{11}H_{12}N_2$ Aceperylene 1,2-diphenyl 292⁶
- $C_{11}H_{12}Cl_2N_2O_6$ 3,9-Perylenehexachloroanilide 2,2'-dichloro-, 292⁶
- $C_{11}H_{12}Cl_2O_4$ Compd from dichloromethyl chloride and 1-amino-4-methylanthraquinone, 422⁸
- $C_{11}H_{12}N_2O_3$ 3-Phenylmethoxycarbonyl 9-(1-benzoxazolyl) (?) 292⁶
- $C_{11}H_{12}N_2O_4$ Anthraquinone 1,3-bis(4-hydroxy-1-naphthylamino), 2716⁹
- $C_{11}H_{12}N_2O_4$ Dibenzol[6]phenanthrene diacetate 3930⁹
- $C_{11}H_{12}O_4$ Di- α -tetrano[5,11,7,12]pentacene 6,13-dione 5,7,12,11-tetrahydro 5160¹
- Perylene, dibenzoyl 292⁶
- $C_{11}H_{12}N_2O_4$ Triazole m over 300° of acid from ergosterol 114⁷
- $C_{11}H_{12}N_2O_3$ 3,9-Perylenehexachloroanilide 292⁶
- $C_{11}H_{12}N_2O_4$ Anthraquinone, 1,3-bis(4-amino-1-naphthylamino), 2716⁹
- $C_{11}H_{12}O_4$ Di- α -benzono[5,11,7,12]pentacene 6,13-diol, 5,7,12,11-tetrahydro 5160¹
- Di- α -benzono[5,11,7,12]pentacene 6,13-dione 5,5a,7,12,13a,14-hexahydro 5161¹
- $C_{11}H_{12}O_4$ Benzene anhydride 5-hydroxy 2-(β -hydroxyphenyl) dibenzoate 510¹
- Phthalocyanophenone, tribenzoate 4150⁴
- $C_{11}H_{12}O_4$ 1-benzopropellone, 97¹
- Pyromellitic acid, tetra- β -ester 1822¹
- $C_{11}H_{12}BeCl_2$ [3,4'-Bithiopyran] 2,2,6,6-tetraphenyl, hexabromide 2428
- $C_{11}H_{12}Cl_2O_4$ [3,4'-Bithiopyran] 2,2,6,6-tetraphenyl, dichloride 2428
- $C_{11}H_{12}Cl_2O_4$ [3,4'-Bithiopyran] 2,2,6,6-tetraphenyl, diol perchlorate 2428
- $C_{11}H_{12}Cl_2$ [3,4'-Bithiopyran] 2,2,6,6-tetraphenyl, dichloride 2428
- $C_{11}H_{12}N_2$ Ethylene (2,2-indolyl) 4880¹
- $C_{11}H_{12}O_4$ Arctonaphthene- α -1-naphthyl- α - α -diphenyl 4879⁴
- $C_{11}H_{12}O_4$ 3,3-Spiro[4,3] 8-naphthopyran 2-phenethyl, 4530¹
- $C_{11}H_{12}O_4$ 3,6-Xanthenediol 9-methyl 9-phenyl, dibenzoate 3644
- $C_{11}H_{12}ClO_4$ [3,4'-Bithiopyran] 2,2,6,6-tetraphenyl, diol perchlorate 2428
- $C_{11}H_{12}N_2O_4$ Cinchonamide N,N-ethylcarbazol 2-phenyl 4883¹
- $C_{11}H_{12}N_2O_4$ 2-Naphthol 3-sulfonic acid 1,1-dimethoxyphenylacetanilide di- β - α salt, 2138¹
- $C_{11}H_{12}O_4$ 1,2-Ethanediol 1,2-di-1-naphthyl 1,2-diphenyl 4879⁴
- 1,4-Naphthalenediol 1,4-dihydro 1,2,3,4-tetraphenyl, 4530¹
- $C_{11}H_{12}O_4$ 10,10-Bis-9-anthrol dimethoxy diacetate 1518¹ 1519¹
- Hydroquinone, 2,5-di- β -toloyl, dibenzoate, 4537¹
- $C_{11}H_{12}O_4$ 10,10-Bianthronyl 1,1-dihydroxy 2,2-dimethoxy diacetate 1520¹
- $C_{11}H_{12}O_4$ Anthracene 1251¹
- $C_{11}H_{12}Cl_2N_2O_4$ 1-Naphthol, phenylate, compd with $AcCl$ 3321¹
- $C_{11}H_{12}NO_4$ Anthrone 10-(β -dimethylamino-phenyl) 1,5-diphenyl, 2140¹
- $C_{11}H_{12}N_2$ 3,6,8-Nonatetraene 5- β -phenylmethyl-1,9-diphenyl 1217¹
- $C_{11}H_{12}N_2O_4$ Anthracenecarboxylic acid 5,10¹
- $C_{11}H_{12}N_2NiO_4$ + 6H₂O, 3435
- $C_{11}H_{12}N_2O_4$ 2-Triazole line 3330¹ 3723¹, 4311¹ 5227¹
- $C_{11}H_{12}O_4$ Thiophene diacetylthioether 1,2,719¹
- $C_{11}H_{12}N_2O_4$ 1-azapropionilic acid lysine salt 161¹
- $C_{11}H_{12}N_2O_4$ Mercaptoaldehyde dihydrazine with α - α -sulphate β -phenylmethyldiazine 1507¹
- $C_{11}H_{12}N_2O_4$ Theophylline diacetate dihydrate in benzene 4534¹
- $C_{11}H_{12}O_4$ 3,4,5-Nonatetraene 7-1-azohydroxy 1- β -diphenyl 1,40¹
- $C_{11}H_{12}O_4$ Bis-3,5-aminophenyl 4,4-dimethyl 4533¹
- $C_{11}H_{12}N_2O_4$ 3,4-Isotriazine 4,5-oxylis[2-ethyl 3,4-ethyl] 514¹
- $C_{11}H_{12}N_2O_4$ 3-(4-aminophenyl) 1,4-diphenyl 514¹
- $C_{11}H_{12}O_4$ 3,4-Pentadiene 1,3-diphenyl, dimethyl 4534¹
- $C_{11}H_{12}NO_4$ Anthraquinone 9-ironium salt, 1,5,8-trihydroxy 2-glucosyl Ac deriv 4281¹
- $C_{11}H_{12}Cl_2N_2O_4$ Porphyrin 1,3,5,6-tetramethyl 6,7- β -propanoic acid 2,4-dihydroxy methyl β - CH_3 deriv 112¹
- $C_{11}H_{12}N_2O_4$ 6- β -propanoic acid 2,4-dihydroxy methyl 1,3-di- β -tolyl, Et ester, 3998¹
- $C_{11}H_{12}O_4$ Anthrone 1-acetoxy 2-acetoxy 9,9-diacetoxy 4261¹
- $C_{11}H_{12}BeCuN_2O_4$ 1-phenyl 1,3,5,6-tetra-methylacetone methyl 6,7-diisopropionic acid) di- β -ester Cu deriv., 4260¹
- $C_{11}H_{12}NO_4$ Isophthalic acid 4-methyl 6-methyl 2-phenyl acid cadmate salt 3327¹
- $C_{11}H_{12}N_2O_4$ 3,4-Pyrazole carboxylic acid 1-(α -carboxyphenyl) 2,5-dimethyl, cadmate salt 5410¹
- $C_{11}H_{12}Cl_2FeN_2O_4$ Mesoporphyrin diethylthio, Me ester Fe complex 1635¹
- $C_{11}H_{12}Cl_2FeN_2O_4$ Mesoporphyrin Fe complex 1257¹ 1
- Porphyrin 1,3,5,6-tetramethyl 4-ethyl 6,7-diisopropionic acid) di- β -ester Fe complex 4260¹
- Pyroheptan hydroxymethyl, 3353¹
- $C_{11}H_{12}CuN_2O_4$ Mesoporphyrin diethylthio, Me ester Cu complex 1635¹
- $C_{11}H_{12}N_2O_4$ Mesoporphyrin, Cu complex deriv 1257¹ 1
- Porphyrin 1,3,5,6-tetramethylethyl 6,7-diisopropionic acid) di- β -ester, Cu deriv., 4260¹ 1
- $C_{11}H_{12}N_2O_4$ + H_2O , 3926¹
- $C_{11}H_{12}N_2O_4$ Phylloerythrin Me ester 3362¹
- Phenolphthalein Me ester 3353¹

- ylene)-3,5-dimethyl, Zr complex compd., with 2a OAc, 8099.
- CuH₂O₄ Cp 10(isothene - 9.9 (10) - phenanthrene 10.9' - anthracene) - 3,3',8.6'-tetrol tetraacetate, 3614.
- CuH₂O₄P 1 phosphoric acid tri 2,4 - diphenyl 1 naphthyl ester, 4256, 12371.
- CuH₂N₂O₄ Lutidine acid, 3 (α - carboxy phenyl) - 6 - phenyl, dibrucina salt, 1061.
- CuH₂O₄ n-Tarabo, octaacetyl, 1919.
- Cu₂H₂SiO₂ 3,10 Perylene-3,10-tetracarboxylic diimide, 1671.
- Cu₂H₂O₂ Campd., m 231, from refection of 1 naphthyl 1 benzyl ketone, 1479.
- Cu₂H₂O₂ Turanose, tria triphenylmethyl, 1859.
- Cu₂H₂N₂O₂ 5862.
- CuH n Heptacetate, 4659, 1134.
- CuH nO₂ 3029.
- Xanthophyll dipalmitate 8,0.
- C₁₂H₂₂N₂O₂ Succinic acid, α,β dimethyl-brucine salt, 4222.
- C₁₂H₂₂O₂ Cellobiose, acetate 4119.
- C₁₂H₂₂O₂ Turanose, tria triphenylmethyl pentacetate 4559.
- C₁₂H₂₂O₂ Tetraacetate octabenzate 89.
- C₁₂H₂₂O₂ Panaxatopogon, di Ac deriv anhydride 1533.
- Cu₂H₂O₂ Hygroterol 4 ketone, 3771.
- C₁₂H₂₂N₂O₂ 1 - Naphthol, phenylazocomp. with BzBr, 3321.
- C₁₂H₂₂O₂ Boihendazole 2456.
- C₁₂H₂₂O₂ Tasmann 2459.
- C₁₂H₂₂O₂ Pollen from Corylus 2459.
- C₁₂H₂₂O₂ Spores from *Lycopodium clavatum*, 2459.
- C₁₂H₂₂O₂ Pollen from Pinus 2459.
- C₁₂H₂₂O₂ Pollen from Pinus, 2459.
- C₁₂H₂₂N₂O₂ Succinic acid, α,β dimethyl-brucine salt 4222.
- C₁₂H₂₂N₂O₂ P 2159.
- C₁₂H₂₂N₂O₂ P 2159.
- C₁₂H₂₂O₂ Ether, bis(α,β tria triphenylmethyl)ethyl 1160.
- CaCl₂ See Calcium chloride.
- CaCl₂O₂ See Calcium hypochlorite.
- CaCl₂O₂ Calcium chlorite 4459.
- CaCl₂O₂ See Calcium chlorite.
- CaCl₂Mg₂ + 12H₂O See Tashkhydrate.
- CaCrO₄ See Calcium chromate.
- CaF₂ See Calcium fluoride.
- CaF₂ See Calcium fluoride fluorite.
- CaF₂Mg₂ See Zambonate.
- CaF₂Si₂ See Calcium fluorosilicate.
- CaF₂O₂ Calcium ferrite 3559.
- CaH₂ See Calcium hydride.
- CaHO₂P See Brushite Calcium phosphate Monohydrate.
- CaH₂ See Calcium hydride.
- CaH₂O₂ See Calcium hydroxide.
- CaH₂O₂P₂ See Calcium phosphates.
- CaH₂KN₂ 2629.
- CaI₂O₂ See Lanthanite.
- CaIn₂O₂ Calcium indate, 889.
- CaK₂O₂ Calcium potassium silicate 1718.
- CaK₂O₂Si₂ + H₂O See Syagria.
- CaK₂N₂O₂ Calcium potassium estrate 3559.
- CaK₂O₂Si₂ Calcium potassium silicate 1718.
- CaK₂O₂Si₂ Calcium potassium silicate, 1718.
- CaK₂O₂Si₂ Calcium potassium silicate 1718.
- CaMgO₂Si₂ See Monosilite.
- CaMgO₂Si₂ See Diopside.
- CaM₂O₂ See Calcium nitrate.
- CaO See Lime.
- CaO 3n Calcium stannate, 1175.
- CaO 2 See Calcium sulfate.
- CaO₂ See Calcium peroxide.
- CaO₂Si₂ See Calcium silicate Hahnite.
- CaO₂Ti₂ See Titanite.
- CaO₂Zr₂ Calcium zirconium oxide 2633.
- CaO 2 See Anhydrite Calcium sulfate Gypsum.
- CaO, W See Calcium tungstate Scholite.
- CaO 3Ti₂ See Titanite.
- CaS See Calcium sulfide.
- Ca Sb₂O₂ Calcium antimony oxide 1811.
- Ca Sb₂O₂ See Lanthanite.
- Ca Cl₂Mg₂ + 6H₂O Calcium magnesium chloride 2549.
- Ca₂Pa₂O₂ See Calcium paratungstate.
- Ca₂K₂MgO₂ 2 + 2H₂O See Lanthanite.
- Ca₂K₂O₂ 2 Calcium potassium silicate, 1718.
- Ca₂MnO₂ 2 See Thermanite, manganese.
- CaO 2Si₂, 1175.
- CaO₂Si₂ See Calcium silicate Hahnite.
- CaO 2Zn₂ See Lanthanite.
- CaO 2Ti₂ Calcium tantalum oxide 2381.
- CaO₂Si₂ + H₂O See Lanthanite.
- Ca₂K₂O₂Si₂ 1718, 3559.
- Ca₂N₂ See Calcium nitride.
- CaO 2Si₂ See Calcium silicate.
- CaO₂P₂ See Calcium phosphite Colophane.
- Ca₂Fe₂K₂O₂Si₂ See Apophyllite.
- CaO₂Ta₂ Calcium tantalum oxide 2381.
- Ca Sb₂O₂ Calcium antimony oxide, 2381.
- Ca Sb₂O₂Si₂ + 2H₂O See Lanthanite.
- Cb₂ Calcium phosphide, 1192.
- Cb₂O₂ See Columbium oxide.
- Cb₂O₂Si₂ Columbium tantalum oxide, 2381.
- Cb₂O₂Si₂ Columbium tantalum oxide, 2381.
- CdCl₂ See Cadmium chloride.
- CdCl₂O₂ + 2H₂O Cadmium chlorite, 4159.
- CdCl₂O₂ Cadmium perchlorate, 5099.
- CdCl₂K Cadmium potassium chloride, 5625.
- CdCl₂H₂N₂ Ammonium cadmium chloride, 2359.
- CdF₂ See Cadmium fluoride.
- CdFe₂O₂ Cadmium ferrite 3889.
- CdH₂ See Cadmium hydride.
- CdH₂N₂O₂Si₂ + 6H₂O Ammonium cadmium sulfate 5619.
- CdH₂Hg₂N₂ 5662.
- CdH₂N₂O₂ 2032.
- CdI₂ See Cadmium iodide.
- CdIn₂N₂ Cadmium indium nitride 2363.
- CdIn₂O₂ Cadmium indate 889.
- CdK₂O₂Si₂ + 6H₂O Cadmium potassium sulfate, 1459.
- CdMg₂ 1432.
- CdMg₂ 1132, 1719.
- CdNa₂O₂Si₂ + 6H₂O Cadmium sodium sulfate 1459.
- CdO See Cadmium oxide.
- CdO 2 See Cadmium sulfate.
- CdO, W Cadmium tungstate, 10.
- CdS See Cadmium sulfide.
- CdSb₂ 2907, 4839.
- CdT₂ Cadmium telluride, 2899.
- CdMg₂ 1432, 1719.
- CdSb₂ 2907.
- Cd₂Cl₂Sb₂ + 2H₂O 1177.
- CaCl₂ See Cerium chloride.
- CoF₂ See Cerium fluoride.
- CaH₂O₂ See Cerium hydroxide.

- C₁₆H₁₀Ag₂N₁₀O₁₆S₄ Pentakis *α, α* dipyrrolyl diargentate persulfate 1700⁺
- C₁₆H₁₀O₄ (1,1) Diamthasquimone] - 4,4 dicarboxylic acid dimethyl ester 3641⁺
- C₁₆H₁₀N₂O₅ Nicotinic acid *α* β disulfo bromine salt 4222⁺
- C₁₆H₁₂N₂O₄ Porphin 1,3,5,8 tetramethyl 2,4 di methylmalonic acid 6,7 di propionic acid hexa Et ester 112⁺
- C₁₆H₁₂N₂O₄ Luthidric acid 3 (o carboxy phenyl) 6 phenyl trimethyl ester 106⁺
- C₁₆H₁₂O₄ Xanthophyll divaluate 320⁺
- C₁₆H₁₂ 4,8 Dodecadimne 3,10 diethyl 6,6,7,7 tetraethyl ethyl γ methyl 1 pentenyl 3,10-dimethyl 4690⁺
- C₁₆H₁₄N₂O₄ Pentaentane 485⁺
- C₁₆H₁₄ClN₂O₄ Nicotinic acid 2 (2 carboxy 6-chlorophenyl) dincinchonic salt 106⁺
- C₁₆H₁₄N₂O₄ Hydratropic acid β sulfo strychnine salt 4564⁺
- Hydrocinamic acid β(1) sulfo- strychnine salt 4534⁺
- C₁₆H₁₄N₂O₄ 2,5 Spiroheptanedecarboxylic acid strychnine salt 4858⁺
- C₁₆H₁₄AlO₄ Camphor benzoyl Alderiv 5341⁺
- C₁₆H₁₄O₄ See *Polmitis*
- C₁₆H₁₄ON₂O₄ Naphthothiazole 2 (p (2 amino 1 naphthylazo)phenyl) Co deriv 3332⁺
- C₁₆H₁₄CuN₂O₄ Naphthothiazole 2 (p (2 amino 1 naphthylazo)phenyl) Cu deriv 3337⁺
- C₁₆H₁₄N₂NI₂O₄ Naphthothiazole 2 (p (2 amino 1 naphthylazo)phenyl) Ni deriv 3337⁺
- C₁₆H₁₄O₄ Dipentaerythritol hexabenzonate 1486
- C₁₆H₁₄N₂O₄S₄ o-o Babenzene-sulfonic acid quione salt 95⁺
- C₁₆H₁₄CuN₂O₄ Isopyrrolopropionic acid 2 (o-aminokino 3 (β carboxyethyl) 4 methyl 2 pyrrolimethylene) 3,5 dimethyl di Me ester Cu deriv 2433⁺
- C₁₆H₁₄N₂O₄S₄ 2,5 Xelenophenedecarboxylic acid tetrahydro- dibromine salt 4263⁺
- C₁₆H₁₄O₄ Cellulose acetate 4170⁺
- C₁₆H₁₄O₄ Gentianose β gentiobioside tetra decaacetate 2978
- C₁₆H₁₄O₄ Xanthophyll diacetate 520
- C₁₆H₁₄O₄ Saponeo decomps 215⁺ 5431⁺
- C₁₆H₁₄N₂O₄ Pseudonolde 2,2 (β (m nitrophenyl)trimethylene)bis[3,3 dibenzyl] 5425⁺
- C₁₆H₁₄N₂ Pseudonolde 2,2 (β phenyltris methylene)bis[3,3 dibenzyl] 5425⁺
- C₁₆H₁₄N₂O₄ Compd of acetone with compd from (p Me⁺Cl⁺)(COH) and [2,4 (O⁺N⁺)₂CH₂]CH 2991⁺
- C₁₆H₁₄N₂O₄ 2,2 Bis(phenene 5,5 triyl) (p isomol eneyl) 2,3 dihydro-2 keto 3 (5 (2 thienyl) 2 thienyl) 3 indyl] 293
- C₁₆H₁₄N₂O₄ 2,2 Butophene 5,5 bis[2,3 dihydro 2 keto 1 p nitrobenzoyl 3 (5 (2 thienyl) 2 thienyl) 3 indyl] 293⁺
- C₁₆H₁₄N₂O₄ Phenarsine 1,6 dihydro-1 hydroxy osalate compd with AcOH, 110
- C₁₆H₁₄ 1,3 Hexadene 1,1,2,3,4,5,6,6-octaphenyl 4706
- C₁₆H₁₄N₂O₄S₄ 6,6⁺ Binetamide acid, strychnine salt 95⁺
- C₁₆H₁₄Br₂H₂O₄Δ^{1,4} 1,4 Cyclohexadienediacetic acid 2 (4 binamo 2 methyl) - 3,6-diketo 5 methyl, dimorphous salt, 5410⁺
- C₁₆H₁₄O₄ Xanthophyll dianthate 520⁺
- C₁₆H₁₄O₄P Phosphoric acid, dicholesteryl ester, P 1323⁺
- C₁₆H₁₄ClN₂ Methane chlorotris[p - (p phenyl anilino)phenyl], 1513⁺
- C₁₆H₁₄ClN₂O₄ Methane chlorotris[p - (p phenyl oxyanilino)phenyl], 1513⁺
- C₁₆H₁₄ClN₂S₄ Methane chlorotris[p (p phenyl mercaptoanilino)phenyl], 1513⁺
- C₁₆H₁₄ClN₂O₄ Nicotinic acid, 2 (2 + carboxy 6 chlorophenyl) distrychnine salt, 106⁺
- C₁₆H₁₄N₂O₄S₄ Hydratropic acid, β sulfo-, brucine salt 4864⁺
- Hydrocinamic acid, β(1) + sulfo-, brucine salt 4864⁺
- C₁₆H₁₄N₂O₄ 2,5 Spiroheptanedecarboxylic acid, brucine salt 4558⁺
- C₁₆H₁₄N₂O₄YI + H₂O 3926⁺
- C₁₆H₁₄O₄ Suprasterol, osalate, 301⁺
- C₁₆H₁₄O₄ Xanthophyll diacrylate 520⁺
- C₁₆H₁₄O₄ Cerotic acid, ester of myrcyl alc, 912⁺
- C₁₆H₁₄O₄ See *Londonia*
- C₁₆H₁₄O₄ See *Eleostera*
- C₁₆H₁₄O₄ See *Olefin*
- C₁₆H₁₄O₄ See *Sitaris*
- C₁₆H₁₄Br₂N₂O₄ Phenol, p phenylazo-, compd, with AcBr 3321⁺
- C₁₆H₁₄N₂O₄ o-o Babenzene-sulfonic acid, brucine salt 95⁺
- C₁₆H₁₄N₂O₄ 2,5 Binetamide acid, brucine salt 95⁺
- C₁₆H₁₄O₄ Compd, m 267⁺, from dehydro-ergosterol 302⁺
- C₁₆H₁₄ClN₂O₄ Nicotinic acid, 2 (2 carboxy 6-chlorophenyl), dibucine salt 106⁺
- C₁₆H₁₄O₄ Hexapyrrololmellicene, dodeca Me ether 97⁺
- C₁₆H₁₄N₂I₂ Benzylpyridinium iodide, compd with benzoindole, 5426⁺
- C₁₆H₁₄N₂O₄ [1,1 Bipyrrrole] 3,3 dicarboxylic acid 2,2,5,5 - tetramethyl, dibucine salt 3640⁺
- C₁₆H₁₄N₂O₄ Xylene glycocholeic acid, 5920⁺
- C₁₆H₁₄ Hexacotane 485⁺
- C₁₆H₁₄N₂O₄ Salicylaldehyde dikydiazone with beneal(phenyl)enebisthiazine, tetra- Be deriv 4862⁺
- Salicylaldehyde beneal(phenyl)enebisthiazine, tetra Be deriv, 4862⁺
- C₁₆H₁₄O₄ Phytosterol tetra Be deriv, 2434⁺
- C₁₆H₁₄ClN₂O₄ Phenol p phenylazo-, compd with COCl₂, 3321⁺
- C₁₆H₁₄O₄ Gentianose, heptabenzoyl 1 β methyl 5401⁺
- Glucose heptabenzoyl 1 β methyl 6-m glucoside 5401⁺
- C₁₆H₁₄N₂O₄ Luthidric acid 3 (o carboxy phenyl) 6 phenyl distrychnine salt, 106⁺
- C₁₆H₁₄N₂O₄ Fluorene compd with 1,3,5 - tri nitrobenzene, 1825⁺
- C₁₆H₁₄O₄ Cereus hexabenzoyl, 5675⁺
- C₁₆H₁₄N₂O₄Zn 4 Isopyrroloene triole, 2 (4 cyano 3,5 - dimethyl 2 pyrrolimeth

- CeO₂ See *Cerium oxides*
 CeO See *Cerium selenate* 1176²
 Ce O₂ See *Cerium oxides*
 Ce O₂ See *Cerium sulfates*
 Ce S₂ Cerium sulfide 1751¹ 2591² 4199³
 Ce S₃ Cerium sulfide 1751¹
 Ce O₂ V₂ + 9H₂O Cerium vanadate, 5107²
 ClCoH₂N₂O₂S₂, 1704
 ClCoH₂N₂O₂S₂, 46²
 ClCoH₂N₂O S₂ 1754¹
 ClCs See *Cesium chloride*
 ClCsO₂ Cesium chlorite 4455²
 ClCsO₂ See *Cesium perchlorate*
 ClCu See *Copper chlorides*
 ClF Chlorine fluoride, 3076
 ClH See *Hydrochloric acid*
 ClHO See *Hypochlorous acid*
 ClHOPb 3259¹
 ClHOSn + H₂O Basic stannous chloride 194
 ClHO₂ See *Chloric acid*
 ClHO₂ See *Chlorosulfonic acid*
 ClHO₂ See *Perchloric acid*
 ClH₂N See *Chloramine*
 ClH₂O₂ Ozoneum perchlorate 890²
 ClH₂N See *Ammonium chloride*
 ClH₂NO₂ Ammonium chlorite 4455²
 ClH₂NO₂ See *Ammonium perchlorate*
 ClHg See *Mercury chlorides*
 ClHg N 3583¹
 ClI See *Iodine chlorides*
 ClIn See *Indium chloride*
 ClK See *Potassium chloride* *Sylvite*
 ClKO₂ Potassium chlorite 4455²
 ClKO₂ See *Potassium chlorate*
 ClKO₂ See *Potassium perchlorate*
 ClLi See *Lithium chloride*
 ClLiO₂ See *Lithium perchlorate*
 ClNO See *Nitrosyl chloride*
 ClNO₂ Nitryl chloride P 731¹ 2630²
 ClNa See *Sodium chloride*
 ClNaO See *Sodium hypochlorite*
 ClNaO₂ Sodium chlorite 4400²
 ClNaO₂ See *Sodium chlorate*
 ClNaO₂ See *Sodium perchlorate*
 ClNaO₂S Sodium chlorite sulfate 241¹
 ClO See *Chlorine oxides*
 ClO₂ See *Chlorine oxides*
 ClO₂Rb Rubidium chlorite 4455²
 ClO₂Rb See *Rubidium perchlorate*
 ClO₂TL See *Thallium perchlorate*
 ClO₂PaPb₂ See *Pyromorphite*
 ClO Pb₂Vi See *Vanadinite*
 ClRh See *Rubidium chloride*
 ClTi See *Thallium chloride*
 ClCo See *Cobalt chloride*
 ClCoO₂ Cobalt perchlorate 5099²
 ClCrO₂ Chromium chloride P 4367²
 ClCu See *Copper chlorides*
 ClCuH₂N₂O₂, 261¹
 ClCuH₂N₂O₂ + 2H₂O, 261¹
 ClCuH₂N₂O₂, 261¹
 ClCuO₂ Copper perchlorate, 261¹, 2640², 5099², 5559²
 ClFe See *Iron chlorides*
 ClGaH₂N₂, 1750²
 ClH₂ 5091¹
 ClHN Dichloramine, 265², 5946²
 ClH₂O₂Se, 5100²
 ClH₂ON₂PT, 3550²
 ClH₂N₂Zn 3023²
 ClHg See *Mercury chlorides*
 ClHgO₂ Mercury chlorate, 468
 ClHgO₂ Mercury perchlorate, 4452²
 ClHg₂S P 2814¹
 ClHg₂O₂ Mercury chloride basic 3586²
 ClIn₂, 5091¹
 ClMg See *Beschofite* *Magnesium chloride*
 ClMn See *Manganite* *chloride*
 ClN 468¹
 ClN₂O 468¹
 ClNi See *Nickel chloride*
 ClNiO₂ Nickel perchlorate, 5099², 5553²
 ClO See *Chlorine oxides*
 ClO₂ See *Thionyl chloride*
 ClO₂Se Selenium oxychloride, 5106²
 ClO₂Zr See *Zirconium oxychloride*
 ClO₂S See *Sulfuryl chloride*
 ClO₂Pb Lead chlorite, 4400²
 ClO₂Zn + 2H₂O Zinc chlorite 4455²
 ClO₂S₂ Pyrosulfuryl chloride 4760²
 ClO₂Pb Lead perchlorate, 468², 5098², 5099²
 ClO₂Zn Zinc perchlorate 5099²
 ClO₂Pb₂ Lead chlorophosphate, P 1343¹
 ClPb See *Lead chloride*
 ClPd See *Palladium chloride*
 ClPt See *Platinum chlorides*
 ClS₂ See *Sulfur chlorides*
 ClSe See *Selenium chlorides*
 ClSi Silica dichloride, 4245¹
 ClSn See *Tin chlorides*
 ClSr See *Strontium chloride*
 ClZn See *Zinc chloride*
 ClCoH₂N₂, 1754¹
 ClCoH₂N₂O 1754¹
 ClCoH₂N₂, 1178²
 ClCr See *Chromium chloride*
 ClCsGe Cesium chlorogermanate, 1701¹
 ClFe See *Iron chlorides*
 ClFeO₂ Iron perchlorate, 631¹
 ClGa Gadolinium chloride, 250²
 ClGaRb Rubidium chlorogermanate 1701¹
 ClH₂Si Silicic tetrachloride, 4245¹, 4790²
 ClH₂MaN₂, 3537¹
 ClH₂MaN₂O₂, 3537¹
 ClH₂MaN₂, 3587²
 ClI See *Iodine chlorides*
 ClIr See *Iridium chloride*
 ClK₂Mg (See also *Carnallite*)
 Magnesium potassium chloride 3779²
 ClMa Molybdenum chloride, 3537¹
 ClN See *Nitrogen chlorides*
 ClNd See *Neodymium chloride*
 ClO₂P See *Phosphorus oxychloride*
 ClO₂V See *Vanadium oxychloride*
 ClP See *Phosphorus chlorides*
 ClPt See *Platinum chlorides*
 ClRh See *Rhodium chloride*
 ClSb See *Antimony chlorides*
 ClSe See *Selenium chloride*
 ClSeH₂N₂, 1750²
 ClH₂EN₂ Ammonium mercury chloride 5095²
 ClHgK₂ Mercury potassium chloride, 5625¹
 ClS See *Sulfur chlorides*
 ClS₂ See *Sulfur chlorides*
 ClSe See *Selenium chlorides*
 ClSi See *Silicon tetrachloride*
 ClSn See *Tin chlorides*
 ClTh See *Thorium chloride*
 ClTi See *Titanium chloride*
 ClZr See *Zirconium chloride*
 ClMo See *Molybdenum chloride*
 ClP See *Phosphorus chlorides*
 ClSb See *Antimony chlorides*
 ClCuH₂N₂O₂, 261¹
 ClG₂O₂, 1750²
 ClH₂PT See *Chloroplatinic acid*.

- CuO₂Se** See *Copper selenite*
CuO₂Si See *Chrysocolla*
CuO S See *Copper sulfide*
CuO₂Se See *Copper selenite*
CuS See *Copper sulfide* *Covellite*
CuSe See *Copper selenides*
CuZn 2958
CuZn 955
CuZn 2958
Cu₂FeS₂ See *Sennarite*
Cu H₂N₂O₃ + 2H₂O Ammonium cuprothiosulfate 1754
Cu K O₂Si Potassium cuprothiosulfate 1754
Cu Na₂O₂ + xH₂O Sodium cuprothiosulfate 1753
Cu O See *Copper oxides*
Cu₂O S Copper thiosulfate 3630
Cu S See *Chalcocite*
Cu S₂ See *Copper selenides*
Cu₂FeS₂ See *Sennarite*
Cu₂H₂O₂ See *Auriferite*
Cu₂Sn 674 1444 1725 2100 3295
Cu H₂O₂Si See *Mochevite*
Cu₂Sn 62 263 3 9a
Cu₂Te See *Rutherfordite*
Cu Na₂O₂Si + 8H₂O Sodium cuprothiosulfate 1753
Dy S Dysprosium sulfide 1701
ErN₂O₂ Erbium nitrate 2509
Er₂Si Erbium sulfide 1701
ZuN₂O₂ Europium nitrate 2509
Fe See *Hydrofluoric acid*
FeO S See *Fluorocarbonic acid*
Fe₂H Fluoranthene 5105
Fe₂N See *Ammonium fluoride*
Fe See *Potassium fluoride*
Fe₂Si See *Lithium fluoride*
Fe₂Na See *Sodium fluoride*
Fe₂Na₂O₂ 3551
Fe₂Se See *Rubidium fluoride*
Fe₂Si See *Silicon fluoride*
Fe₂Se See *Strontium fluoride*
Fe₂Si See *Thallium fluoride*
Fe₂Se See *Iron fluoride*
Fe₂Si See *Lithium fluoride*
Fe₂N Dithionitrate 5105
Fe₂Mg See *Magnesium fluoride*
Fe₂Mn See *Manganese fluoride*
Fe₂N See *Nitrogen fluoride*
Fe₂Si See *Nickel fluoride*
Fe₂O See *Fluorine oxide*
Fe₂Se See *Lead fluoride*
Fe₂Si See *Sulfur fluoride*
Fe₂Se See *Strontium fluoride*
Fe₂Se See *Zinc fluoride*
Fe₂Se See *Iron fluoride*
Fe₂Si See *Nitrogen fluoride*
Fe₂Se See *Palladium fluoride*
Fe₂Se See *Rhodamine fluoride*
Fe₂Se See *Lead fluoride* 3632
Fe₂Si See *Silicon fluoride*
Fe₂Se See *Fluorocarbonic acid*
Fe₂H₂N₂ Ammonium hexafluorophosphate 1754, 2614 4453
Fe₂K₂ Potassium hexafluorophosphate 1754, 2614 4453
Fe₂K₂Ti Potassium fluorotitanate 3543
Fe₂MgSi See *Magnesium fluorosilicate*
Fe₂Mo Molybdenum fluoride 3584
Fe₂Na₂ + 3H₂O Sodium hexafluorophosphate 1754
Fe₂Na₂Si See *Sodium fluorosilicate*
Fe₂Fe₂ Rubidium hexafluorophosphate, 1754, 2614
Fe₂PbSi + 4H₂O See *Lead fluorosulfate*
Fe₂Se See *Sulfur fluoride*
Fe₂SiZn + 6H₂O See *Zinc fluorosulfate*
Fe₂Si Disubstituted, hexafluoro, 4812
Fe₂N Tetrachloro fluoride 2630
Fe₂Si See *Iodine fluoride*
Fe₂H₂N₂Si, 1754
Fe₂HO₂ See *Ferric acid*
Fe₂HO₂ See *Iron hydroxides*
Fe₂HO₂ See *Iron hydroxides*
Fe₂HO₂Si See *Iron phosphates*
Fe₂H₂N₂O₂Si + 6H₂O Ammonium iron sulfate, 1454 4163 5813
Fe₂Si See *Iron sulfide*
Fe₂K₂O₂Si + 6H₂O Iron potassium sulfate 1154
Fe₂N₂O₂ See *Iron nitrate*
Fe₂HO₂ See *Iron nitrate*
Fe₂Na₂O₂Si See *Argemite* *Argemite*
Fe₂Na₂O₂Si + 6H₂O Iron sodium sulfate, 1454
Fe₂Na₂O₂ Nickel ferrite 3585
Fe₂O See *Iron oxides*
Fe₂O₂Si See *Grauerite*
Fe₂O₂Ti See *Fluorite* *Iron titanate*
Fe₂O₂P See *Iron phosphates* *Silicofluorite*
Fe₂O S See *Iron sulfite*
Fe₂O₂Ta See *Tantalite*
Fe₂Se See *Iron sulfides*
Fe₂Si See *Iron sulfides* *Marcasite* *Pyrite*
Fe₂Si Iron sulfide 1715, 1750
Fe₂V 2336
Fe₂SiMo₂O₂ + 6H₂O Iron molybdate 4206
Fe₂K₂O₂Si + 2H₂O See *Argemite*
Fe₂Mg₂O₂, 1459 3585 4750
Fe₂Mo₂O₂ + 3H₂O Iron molybdate, 4206
Fe₂Na₂O₂Si, 4750
Fe₂Ni₂Si Iron nickel sulfide 672
Fe₂O₂ See *Gothite* *Hematite* *Hydrohematite* *Iron oxides* *Limonite* *Oligist* *Xantho-*
indurite
Fe₂O₂Pb Lead ferrite 3585
Fe₂O S Strontium ferrite 3585
Fe₂O Ti See *Iron titanate*
Fe₂O₂Zn Zinc ferrite, 1175
Fe₂O₂ See *Iron oxides*
Fe₂O₂Si + 3H₂O See *Cotnamite*
Fe₂O₂Si See *Natronite*
Fe₂O₂Si See *Iron sulfates*
Fe₂P Iron phosphide, 1750
Fe₂Si Iron sulfide, 1750
Fe₂N See *Iron nitride*
Fe₂O₂ See *Iron oxides* *Lodestone* *Magnetite*
Fe₂O₂P + 3H₂O See *Argemite*
Fe₂O₂Si + 12H₂O See *Romerite*
Fe₂P Iron phosphide 1750
Fe₂O₂Ta See *Iron titanates*
Fe₂O₂V + 3H₂O See *Ferrocene*
Fe₂H₂K₂O₂Si See *Jarosite*
Fe₂Mn₂O₂Si + 27H₂O See *Landerite*
Fe₂HO₂Si See *Grauerite*
Fe₂Na₂O₂Si, 675
Ga See *Gallium sulfides*
Ga₂MgO₂ Magnesium gallate 476
Ga S See *Gallium sulfides*
Ga₂Si See *Gallium sulfides*
Ga₂Si Gadolinium sulfide 1751
Ga₂H₂N₂ Germanium oxide 1750 3682
Ga₂H₂Na₂O₂W + 19H₂O 653
Ga₂H₂Mn₂O₂ 653 1751
Ga₂H₂O₂W + 29H₂O 653

OsO_4 See Germanium oxide
 $OsO_4 \cdot 4H_2O + 32H_2O$, 653⁴
 OsS_3 See Germanium sulfides
 OsS_3 See Germanium sulfides
 OsO_3S_2 , 1750⁴
 Os_2N_2 Germanium n. trade, 1731³

HgH_2 See Mercury hydride
 Hl See Hydrogen iodide
 HIO_3 See Iodic acid
 HIO_4 See Periodic acid
 HK See Potassium hydride
 HKO See Potassium hydrosulfide
 HKO_3 See Potassium sulfates
 HKS See Potassium sulfides
 HL See Lithium hydride
 $HLiO$ See Lithium hydrosulfide
 $HMgO P$ See Magnesium phosphates
 $HMnO_3$ See Manganese
 $HMnO_4$ See Permanganic acid
 HNO_3 See Nitric acid
 HNO_4 See Nitric acid
 HNO_5 Nitronitric acid, 1603³
 HNa See Sodium hydride
 $HNaO$ See Sodium hydrosulfide
 $HNaO_3$ See Sodium sulfates
 $HNaO_4$ See Sodium sulfates
 $HNaO_5$ See Sodium hydrosulfides
 $HNaO P$ See Sodium phosphates
 $HNdO_3$ See Neodymium selenate, 1630⁴
 $HOAb$ See Rubidium hydrosulfide
 $HO P$ See Methylphosphoric acid
 $HO V$ See Vanadic acid
 HO_2 See Peroxydic acid, 1500³
 HO_3 See Peroxydic acid
 HP See Phosphoric acid
 Hl See Lithium hydride, 3500³
 HZn See Zinc hydride
 HKN See Potassium amide
 $HKO P$ See Potassium phosphates
 $HMXO_3$ See Brevic acid
 $HMXO_4$ See Brevic acid
 $HMXO_5$ See Brevic acid
 $HNaO_3$ See Sodium sulfates
 $HNaO_4$ See Sodium sulfates
 $HNaO_5$ See Sodium sulfates
 $HNaO_6$ See Sodium sulfates
 $HNaO_7$ See Sodium sulfates
 $HNaO_8$ See Sodium sulfates
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 $HNaO_{99}$ See Sodium sulfates
 $HNaO_{100}$ See Sodium sulfates

HPh See Lead hydride
 HS See Hydrogen sulfide
 HSa See Hydrogen selenide
 HSa See Hydrogen selenide
 HTe See Hydrogen telluride
 $HEg KO_3$, 3110³ base, 338³
 $HLaO_3$ See Lanthanum hydrosulfide
 $HLiO_3 P$ + $4H_2O$ Phosphoric acid, 1600³
 HLN See Ammonia
 $HLNO$ See Hydroxylamine
 $HLNO_3$ See Nitrosyl acid
 $HO P$ See Hypophosphoric acid
 $HO_2 P$ See Phosphoric acid
 $HO_3 P$ See Phosphoric acid
 $HO_4 P$ See Phosphoric acid
 $HO_5 P$ See Phosphoric acid
 $HO_6 P$ See Phosphoric acid
 $HO_7 P$ See Phosphoric acid
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 $HO_{98} P$ See Phosphoric acid
 $HO_{99} P$ See Phosphoric acid
 $HO_{100} P$ See Phosphoric acid

H₂N₂O₈ S₂Zn + 6H₂O Ammonium zinc sulfate,
(494) 4164 5813⁹

H₂N₂S See Ammonium sulfide

H₂O-Si See Silicates

H₂N₂O₈P See Ammonium phosphates

H₂O-Su 1178

H₂MnO₈S 793⁹

H₂N₂O₈P See Ammonium phosphates

H₂N₂O₈S 49

H₂N₂O₈Re 5679

H₂N₂O₈ Ammonium molybdatesulfate F
444⁹

H₂O-Su 118

H₂N₂O₈Eu 454⁹

H₂N₂O₈Pw + 3H₂O 46⁹

H₂Hg₂N₂Ni 586⁹

H₂Hg₂N₂Zn 596⁹

H₂N₂NiO₈ 49⁹

H₂N₂NiO₈S 993⁹

H₂N₂NiO₈Re 5679

H₂N₂NiO₈P 106⁹

H₂Mo₂N₂O₈ + 4H₂O 1160

H₂N₂Na₂Pb 361⁹

H₂N₂Na₂Sb 361⁹

H₂N₂Na₂Pb 361⁹

H₂Mo₂N₂O₈ + 10H₂O 447⁹

H₂Mo₂N₂O₈ 15H₂O 447⁹

H₂Mo₂N₂O₈ + 10H₂O 447⁹

H₂N₂O₈W Ammonium paratungstate 469⁹

H₂N₂O₈Sb₂W + 4H₂O 46⁹

H₂N₂O₈Sb₂W + 4H₂O 46⁹

H₂O See Hydrogen oxide

H₂O-H₂ Halogen sulfide 1753⁹

Hg₂ See Mercury sulfide

Hg₂K + H₂O Mercury potassium sulfide 5923⁹

Hg₂K₂ Mercury potassium sulfide 312⁹ 5625⁹

Hg₂N₂O₈ See Mercury nitrate

Hg₂O See Mercury oxide

Hg₂O₈ See Mercury sulfate

Hg₂S See Cinnabar

Hg₂Te (See also Col sulfide)

Mercury telluride 509

Hg₂Li₂O₈ 46⁹

Hg₂Li₂ 1814⁹

Hg₂Li₂ Mercury potassium sulfide 39⁹

Hg₂O₈Vi Mercury vanadate 510⁹

Hg₂O₈Vi Mercury vanadate 510⁹

Hg₂O₈ + 2H₂O 2543

Hg₂Li₂O₈ 3653⁹

Hg₂Se 1776

H₂N₂O₈ Holmium nitrate 230⁹

IKO₂ See Potassium iodide

IKO₂ Potassium per iodate 1170⁹ 5361⁹

ILi See Lithium sulfide

ILiO₂ Lithium sulfide 1023⁹

INa See Sodium sulfide

INaO₂ See Sodium sulfide

INaO₂ Sodium periodate, 549⁹

IO₂TI See Thallium sulfide

IRb See Rubidium sulfide

ITI See Thallium sulfide

IMg See Magnesium sulfide

IMgO₂ Magnesium sulfate 206⁹

IMn See Manganese sulfide

INa₂Na₂O₈ + 13H₂O 2067⁹

INI See Nickel sulfide

IO₂ See Iodine sulfide

IPb See Lead sulfide

ISa See Samarium sulfide

ISe See Selenium sulfide

IZn See Zinc sulfide

IK + 3147 See Potassium sulfides

ILa₂O₈ Lanthanum iodate, 1143⁹

ILn See Lanthanum sulfide

ISb See Antimony sulfide

ISm See Samarium sulfides

ISI₂ Silicon sulfide, 4756⁹

ISu See Tin sulfide

IK + H₂O See Potassium sulfides

ELiO₈ Lithium potassium sulfate, 1158⁹

KMnO₂ See Potassium permanganate

KNO₂ See Potassium nitrate

KNO₃ See Potassium nitrate

KNdO₂ + H₂O Neodymium potassium sulfate,
1176⁹

KNdO₂ + 4H₂O Neodymium potassium
sulfate, 1176⁹

KORes₂ Potassium trithioperbhenate, 2069⁹

KORes₂ Potassium dithioperbhenate, 2069⁹

KOP₂ See Potassium metaphosphate

KORes₂ Potassium monothioperbhenate, 2069⁹

KORes₂ Potassium perbhenate 563⁹, 2033⁹, 2933⁹,
5812⁹

KRes₂ Potassium tetrithioperbhenate, 2069⁹

KMgN₂O₈ Magnesium potassium nitrate,
P 5243⁹

KMgO₂ (See also Leonite)

Magnesium potassium sulfate, 1454⁹, 5813⁹

KMgO₂ See Leonite

KMnO₂ See Potassium manganite

KMnO₂ + 6H₂O Naogaosse potassium sul-
fate 1454⁹

KMnO₂ Naogaosse potassium sulfate,
2067⁹

KMoO₂ + 11H₂O Nolybdenyl potassium sul-
fate 5106⁹

KNiO₂ Potassium nickelate, 505⁹

ENiO₂ 2931⁹

KNiO₂ + 6H₂O Nickel potassium sulfate,
1454⁹

KO See Potassium oxide

KO₂ See Potassium thiosulfate

KO₂Te Potassium tellurite 541⁹

KO₂ See Potassium sulfates

KO₂ Potassium metabisulfite 2520⁹

KO₂S₂ Potassium dithionate, 4757⁹

KO₂S₂ Potassium trithionate 657⁹

KO₂ See Potassium pyrosulfate

KO₂S₂ See Potassium persulfate

KO₂S₂ + 6H₂O 1454⁹

KO₂S₂Zn + 6H₂O Zinc potassium sulfate, 260⁹

K₂ See Potassium sulfides

K₂ + 3H₂O See Potassium sulfides

K₂Se See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

K₂Se₂ See Potassium sulfides

Li₂O₃ Li lithium metasilicate, 463³
 Li₂O₃ Si₂ Seu Lithium sulfide
 Li₂O₃ Si₂ Lithium disilicate, 463⁴
 Li₂ S See Lithium sulfide
 Li₂ S₂ Seu Lithium disulfide
 Li₂ S₃ Seu Lithium trisulfide
 Li₂O₃ Si₂ Lithium orthosilicate, 463⁵
 MgMoO₄ Magnesium molybdate 211¹
 MgH₂O₂ Seu Magnesium nitrate
 MgNa₂O₃ Si₂ (Seu also Actinolite *Bifida*)
 Magnesium silicate sulfate 1454²
 MgO See Magnesia
 MgO₂ See Magnesium oxide
 MgO₃ S₂ Seu Magnesium sulfide
 MgO₃ S₂ Seu Magnesium thiosulfate
 MgO₃ Si₂ See Chloroactinolite *Isotrite* Magnesium silicate
 MgO₃ S₂ Seu Phosmelite Hexahydrate *Asa erite*
 Magnesium sulfide
 MgO₃ W₂ Seu Magnesium tungstate
 MgO₃ Si₂ Ti₂ + 6H₂O Magnesium thallium sulfate
 581³
 Mg₃ S₂ Seu Magnesium sulfide
 MgZn₂ 1717¹
 Mg₂O₃ Si₂ See Forsterite
 MgO₃ Ti₂ Magnesium orthotitanate 4163¹
 Mg₃ Si₂ 5630¹
 Mg₃N₂ See Magnesium nitride
 Mg₃O₃P₂ See Magnesium phosphate
 MnMoO₄ See Manganese molybdate
 Mn₂N₂O₃ See Manganese nitride
 MnNa₂O₃ Seu Sodium permanganate
 MnNa₂O₃ Si₂ + 6H₂O Manganese sodium sulfate
 1454
 MnO See Manganese oxides
 MnO₂ See Manganese oxide
 MnO₃ S₂ Seu Manganese sulfide
 MnO₃ W₂ See Manganese tungstate
 MnO₃Rb₂Si₂ + 6H₂O Manganese rubidium sulfate
 2067
 MnO₃Si₂Ti₂ + 6H₂O Manganese thallium sulfate
 2067
 Mn₂S₂ Seu Alabandite Manganese sulfide
 Mn₂S₃ Seu Hauserite
 MnZn₂ 2101 5171
 MnZn₂ 2101¹ 5131
 Mn₂O₃ Si₂ Seu Tephroite
 MnO₃Ti₂ Manganese orthotitanate 4163¹
 Mn₂O₃Rb₂Si₂ Manganese rubidium sulfate
 2067¹
 Mn₂O₃Ti₂ Manganese thallium sulfate, 2067²
 Mn₂Zn₂ 580¹
 Mn₂O₃ S₂ Seu Manganese sulfide
 Mn₂O₃P₂ Seu Manganese phosphate
 Mn₂S₂ 580¹
 Mn₂N₂ Seu Manganese nitride
 MoNa₂O₃ Seu Sodium molybdate
 MoNiO₃ Seu Nickel molybdate
 Mo₂O₃ Seu Molybdenum oxide
 MoO₃Pb₂ Seu Wulfenite
 MoO₃Zn₂ Seu Zinc molybdate
 MoPr₂ Molybdenum phosphide 4192¹
 MoS₂ Seu Molybdenite
 Mo₂O₃ S₂ Seu Sodium molybdate
 Mo₂Na₂O₃ Seu Sodium molybdate
 Mo₂O₃Rb₂Si₂ + 6H₂O Molybdenum rubidium sulfate
 5100¹
 HNa₂O₃ Seu Sodium nitrate
 HNa₂O₃ S₂ Seu Sodium nitrate sulfate, 241¹
 NO See Nitrogen oxides

NO₂ See Nitrogen oxide
 NO₂Rb₂ See Rubidium nitrate
 NO₂Ti₂ See Thallium nitrate
 NRb₂ Rubidium nitride 849
 NS₂ Scandium nitride 113¹
 N₂ S₂ See Tantalum nitride
 NTi₂ See Tantalum nitride
 NV₂ See Vanadium nitride
 NZr₂ See Zirconium nitride
 Na₂Na₂O₃ Sodium hyposulfite 767¹
 Na₂Na₂O₃ S₂ 413¹
 Na₂O See Nitrogen oxide
 Na₂O Pb₂ See Lead nitrate
 Na₂O₃ S₂ See Nitrogen sulfide
 Na₂O Pb₂ See Lead nitrate
 Na₂O Sn₂ Tin nitrate 5076
 Na₂O Sr₂ See Strontium nitrate
 Na₂O Pb₂ 5614¹
 Na₂O Tb₂ Thoryl nitrate 1273
 Na₂O Zn₂ + 3H₂O 5614
 Na₂O U₂ Seu Uranium nitrate
 Na₂O Zn₂ + 3H₂O 5614
 NaNa₂ S₂ Sodium azide
 NaNa₂O₃ Neodymium nitrate 250¹ 3571¹
 Na₂O Pr₂ Praseodymium nitrate 250¹
 Na₂O Sm₂ Samarium nitrate 250¹
 Na₂O Tb₂ See Thorium nitrate
 NaPb₂ See Lead azide
 NaNa₂O₃ S₂ + 2H₂O Neodymium sodium
 sulfate 1176¹
 Na₂O₃P₂ Seu Sodium metaphosphate
 Na₂NiO₃ Sodium nickelate 625
 Na₂NiO₃ 2211¹
 Na₂NiO₃ Si₂ + 6H₂O Nickel sodium sulfate
 1454¹
 Na₂O S₂ See Sodium oxide
 Na₂O₃ S₂ See Sodium sulfide
 Na₂O Sn₂ Sodium stannate 5431¹
 Na₂O S₂ See Sodium sulfide
 Na₂O Sr₂ + 6H₂O See Sodium thiosulfate
 Na₂O₃ Si₂ See Sodium silicate
 Na₂O₃ Sn₂ Sodium stannate P 116¹, P 782¹
 Na₂O S₂ See Selenite Sodium sulfates *Then*
 azide
 Na₂O Si₂ See Sodium hyposulfite
 Na₂O₃Ti₂ See Sodium tellurite
 Na₂O W₂ Seu Sodium tungsten
 Na₂O₃ Si₂ See Sodium silicate
 Na₂O₃ S₂ See Sodium sulfide
 Na₂O₃ S₂ Seu Sodium tetrahydrate, 657¹
 Na₂O Si₂ See Sodium silicate
 Na₂O W₂ See Sodium tungsten
 Na₂O₃ Si₂ See Sodium silicate
 Na₂O₃ S₂ See Sodium sulfide
 Na₂O₃ S₂ Seu Sodium tungsten
 Na₂O₃ W₂ See Sodium tungsten
 Na₂O₃ W₂ See Sodium tungsten
 Na₂S₂ Seu Sodium sulfide
 Na₂S₃ See Sodium sulfide
 Na₂S₄ See Sodium sulfide
 Na₂S₅ See Sodium sulfide
 Na₂S₆ See Sodium sulfide
 Na₂S₇ See Sodium sulfide
 Na₂S₈ See Sodium sulfide
 Na₂S₉ See Sodium sulfide
 Na₂S₁₀ See Sodium sulfide
 Na₂S₁₁ See Sodium sulfide
 Na₂S₁₂ See Sodium sulfide
 Na₂S₁₃ See Sodium sulfide
 Na₂S₁₄ See Sodium sulfide
 Na₂S₁₅ See Sodium sulfide
 Na₂S₁₆ See Sodium sulfide
 Na₂S₁₇ See Sodium sulfide
 Na₂S₁₈ See Sodium sulfide
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 Na₂S₂₀ See Sodium sulfide
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 Na₂S₂₂ See Sodium sulfide
 Na₂S₂₃ See Sodium sulfide
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